INDEX

Abdel-Hady, M., article by 969
Accretion Rate of Recent Subtidal Algal Stromatolites, Bermuda. Distribution, Morphology, and 49
Achauer, C. W., article by 1466
Acid Levels in the Argentine Basin Sediments: Correlation with Quaternary Climatic Changes. Amino 345
African Continent: A Clay-Mineralogical Study of Sea Water Solids. Surinam and the 1588
Africa. Stromatolites and Oncolites in the Otavi Series, South West 1046
Alaska. Modern Marine Carbonate Sediment, Alexander Archipelago 581
Albian-Cenomanian Yagur Dolomite on Mount Carmel (Northern Israel). Diagenetic Dedolomitization in the 380
Alexander Archipelago, Alaska. Modern Marine Carbonate Sediment 581
Algal Stromatolites, Bermuda. Distribution, Morphology, and Accretion Rate of Recent Subtidal 49
Algal Stromatolites in the James Reef Complex (Lower Cretaceous), Fairway Field, Texas 1466
Allen, J. R. L., article by 607
Allen, R. C., article by 136
Allogenic Quartz and the Origin of Penemosaic Texture in Evaporites of the Detroit River Formation (Middle Devonian) in Northern Indiana: Reply to Discussion by D. A. Holliday 1258
Alluvial, Dune (?), Tidal, Nearshore (Bar and Lagoon), and Offshore Sedimentary Environments in a Tectonic Delta Complex. The Tully Clastic Correlatives (Upper Devonian) in New York State: A Model for Recognition of 451
Alluvial Sediments. Markov Analysis of Cyclic .. 330
Alpena, Michigan. Genesis and Environmental Energy of a Devonian Lagoonal Bank Near 509
American Upper Ordovician Standard. XI. Multivariate Classification of Typical Cincinnatian Calcarenites. The 769
Amino Acid Levels in the Argentine Basin Sediments: Correlation with Quaternary Climatic Changes 345
Analyses of Columbia River Sediment Samples. Quantitative Statistical 1167
Analysis Applied to the Rensselaer Greywacke and its Implication to the Taconics. Trend Surface 176
Analysis: Comment on a Paper by John Chappell. Recognizing Fossil Strand Lines from Grain-Size 1254
Analysis." Discussion of the Paper "Settling Convection and Grain Size 1641
Analysis of Cyclic Alluvial Sediments. Markov .. 330
Analysis of Heavy Minerals. X-Ray Diffraction . 1384
Analysis of Longshore-Bars and Troughs, Lake Superior, Ontario. A Grain Size 1317
Analysis of Sands. An Inexpensive Recording Settling Tube for 781
Analysis of the Citronelle Formation of the Gulf Coastal Plain. Heavy Minerals and Size 1552
Analysis. Porosity and Permeability of Unconsolidated, Upper Miocene Sands from Grain-Size 312
Analysis Technique Using X-Rays. A Non-Destructive Core 1371
Analyzer Directly Writing Grain Size Distribution Curves. Granulometer—A Sediment .. 1627
Anatomy of a Flysch 680
Anatomy of a Modern Carbonate Tidal-Flat, Andros Island, Bahamas 1201
Ancient and Modern Sedimentary Environments of the Lower Georgia Coastal Plain. The Significance and Limitations of Statistical Parameters for Distinguishing 559
Anderson, F. E., article by 1238
Andrews, P. B., article by 350
Andros Island, Bahamas. Anatomy of a Modern Carbonate Tidal-Flat, ... 1201
Angino, Ernest E., article by 1412
"Anomalies in the Thermoluminescence of the Austin Chalk of Texas." Discussion of a Note by J. M. Waite Entitled 395
"Anomalies in the Thermoluminescence of the Austin Chalk of Texas", Reply to Comment by McDougall 395
Antarctica. Petrology of the Upper Precambrian and Paleozoic Sandstones in the Pensacola Mountains 1455
Antarctic Argillite: Field, Geochemical, and Mineralogical Observations. Weathering of an 369
Antidunes as Trochoidal Waves 1302
Antidunes in the Mount Toby Conglomerate (Triassic, Massachusetts) 1310
Apparatus. Centrifuge Separation of Heavy Minerals: A New 815
Arabian Gulf. Modern Evaporite Deposition and Geochemistry of Coexisting Brines, The Sabkha, Trucial Coast, ... 70
Aragonite-Cemented Sandstone from Outer Continental Shelf off Delaware Bay: Submarine Lithification Mechanism Yields Product Resembling Beachrock 136
Archipelago, Alaska. Modern Marine Carbonate Sediment, Alexander 581
Argentine Basin Sediments: Correlation with Quaternary Climatic Changes. Amino Acid Levels in the 345
Argillaceous Sediments and Paleosalinity in the Rheintalgraben (SW Germany). Relationships Between Initial Porosity of Tertiary . 246
Argillite: Field, Geochemical, and Mineralogical Observations. Weathering of an Antarctic .. 369
Argillites of the Carolina Slate Belt, North Carolina. Crystal Molds in 820
Artificial Staining. The Precipitational Environment and Correlation of Some Calcite Cements Deduced from 787
Aspects of Carbonate Sedimentation on the Atlantic Continental Shelf off the Southern United States 744
Asquith Entitled "Origin of Large Kaolinite Crystals in the Lower Almond Formation in South-west Wyoming." Note on an Article by G. B. 1255
Associations of Fossils, Grain-Types, and Chemical Constituents in the Upper Devonian and Lower Carboniferous Limestones of the Bonaparte Gulf Basin, Northwest Australia 1118
Astoria Submarine Canyon-Fan Systems,

Northeast Pacific. Sediments and Sedimentary Structures of the..... 1269
Atherton, M. P., article by..... 1420
Atlantic Coastal Plain. Landward Transport of Bottom Sediments in Estuaries of the..... 222
Austin Chalk of Texas." Discussion of a Note by J. M. Waite Entitled "Anomalies in the Thermoluminescence of the..... 395
Austin Chalk of Texas," Reply to Comment by McDougall. "Anomalies in the Thermoluminescence of the..... 395
Australia. Associations of Fossils, Grain-Types, and Chemical Constituents in the Upper Devonian and Lower Carboniferous Limestones of the Bonaparte Gulf Basin, Northwest..... 1118
Authigenic Mineral Growths as Revealed by the Scanning Electron Microscope..... 1596
Authigenic Tourmalines from the Lower Kaladgi Sandstones, Jamkhandi, Mysore State.... 391
Automatically Recording Settling Tube. Calibration of the University of Southern California..... 781

Bahamas. Anatomy of a Modern Carbonate Tidal-Flat, Andros Island,..... 1201
Bailey, R. J., article by..... 1420
Baker, Seymour R., article by..... 1371
(Bar and Lagoon), and Offshore Sedimentary Environments in a Tectonic Delta Complex. The Tully Clastic Correlatives (Upper Devonian) of New York State: A Model for Recognition of Alluvial, Dune (?), Tidal, Nearshore..... 451
Bars and Troughs, Lake Superior, Ontario. A Grain Size Analysis of Longshore-..... 1317
Basin. Tectonics and Sedimentation in a Precambrian Shallow Epicontinental..... 1566
Basin. The Environmental Significance of Cross Stratification Parameters in an Upper Carboniferous Fluvial..... 858
Bassarab, D. R., article by..... 1014
Beach. Chesil Beach, England. Size Grading Along a Pebble..... 297
Beaches and a Possible Ancient Example. Eolian Microridges on Modern..... 1573
Beachrock. Aragonite-Cemented Sandstone from Outer Continental Shelf off Delaware Bay: Submarine Lithification Mechanism Yields Product Resembling..... 136
Beach Sand. Hoof-Print Structures in..... 350
Beds. Erosional Current Marks of Weakly Cohesive Mud..... 607
Behrens, E. W., article by..... 159
Belderson, Robert H., article by..... 1249
Bennin, Robert, article by..... 1509
Berea Sandstone Channel at South Amherst, Ohio. Grain Orientation in a..... 737
Berkshire, D. C., article by..... 1610
Bermuda. Distribution, Morphology, and Accretion Rate of Recent Subtidal Algal Stromatolites,..... 49
Berwyn Hills, North Wales. The Origin of Matrix in Ordovician Greywackes,..... 1297
Bhattacharya, A. K., article by..... 1566
Biogenic Carbonates: A Model of Diagenesis. Experimental Dissolution of Calcium, Magnesium, and Strontium from Recent..... 1057
Biogenic Sedimentary Structure. Tadpole Holes: A True..... 358
Bioturbation of Holocene Sediments on La Jolla Deep Sea Fan, California..... 601
Blackjack Creek Formation (Pennsylvanian), Missouri. Carbonate Facies and Paleography of the..... 34
Black River (Middle Ordovician) Group of Southwestern Ontario, Canada. Supratidal Carbonate Rocks in the..... 1530
Blackwelder, B. W., article by..... 744
Blatt, Harvey, article by..... 591
Boggs, Sam Jr., article by..... 1243
Bonaparte Gulf Basin, Northwest Australia. Associations of Fossils, Grain-Types, and Chemical Constituents in the Upper Devonian and Lower Carboniferous Limestones of the..... 1118
Borst, Roger L., article by..... 1596
Bottom Sediments in Estuaries of the Atlantic Coastal Plain. Landward Transport of.... 222
Bowles, F. A., article by..... 1546
Brady, Lawrence L., article by..... 632
Braided River. The Sedimentology of a..... 649
Braun, Moshe, article by..... 113
Brines, The Sabkha, Trucial Coast, Arabian Gulf. Modern Evaporite Deposition and Geochemistry of Coexisting..... 70
British Honduras Coast. Stroms and Sedimentary Processes Along the Northern..... 235
Brookins, D. G., article by..... 364
Brenchley, P. J., article by..... 1297
Brezina, Jiri, article by..... 1627
Brier, Chester, article by..... 1509
Britain. Shelf Sedimentation: An Example from the Jurassic of..... 1344
Bryant, William R., article by..... 1633
Bryant, W. R., article by..... 1546
Bulk Density Measurement in Marine Sediment Cores. Preliminary Evaluation of a Core Scintillation Counter for..... 1509
Burger, J. A., article by..... 338
Burke, Kevin, article by..... 797
Butler, G. P., article by..... 70

Cadigan, R. A., article by..... 12
Calcarenites in the Ste. Genevieve Limestone (Mississippian), Missouri. Dispersal Patterns and Diagenesis of Oolitic..... 954
Calcarenites. The American Upper Ordovician Standard. XI. Multivariate Classification of Typical Cincinnatian..... 769
Calcisiltite. Carbonate Petrology of the Onondaga Limestone (Middle Devonian), New York: A Case for..... 268
Calcite Cements Deduced from Artificial Staining. The Precipitational Environment and Correlation of Some..... 787
Calcite Cements in Pleistocene-Recent Carbonates from the New Hebrides. Ferroan and Non-Ferroan..... 554
Calcium Carbonate Polymorphs in Warm, Shallow Seawater. Stability of..... 1579
Calcium Carbonate Size Distribution on the West Florida Shelf and Experimental Studies on the Microarchitectural Control of Skeletal Breakdown..... 902
Calcium, Magnesium, and Strontium from Recent Biogenic Carbonates: A Model of Diagenesis. Experimental Dissolution of..... 1057
Calclithite Fragments vs Extraclasts: A Discussion..... 1640
Calibration of the University of Southern California Automatically Recording Settling Tube..... 781
California. Bioturbation of Holocene Sediments on LaJolla Deep Sea Fan..... 601
(California). Iron-Bearing Heavy Minerals in

the Sespe Formation 1616
Calvert, S. E., article by 624
Cambrian), Montana. The Isotopic Age of the Flathead Sandstone (Middle 364
Canada. Supratidal Carbonate Rocks in the Black River (Middle Ordovician) Group of Southwestern Ontario, ... 1530
Canon City, Colorado, Area. Stratigraphy and Petrology of the Morrison Formation (Jurassic) of the 632
Canyon-Fan Systems, Northeast Pacific. Sediments and Sedimentary Structures of the Astoria Submarine 1269
Cape Hatteras. Linear "Lower Continental Rise Hills" off 1132
Carbonate Facies and Paleography of the Blackjack Creek Formation (Pennsylvania), Missouri 34
Carbonate Lithofacies and Environments of the Tribes Hill Formation (Lower Ordovician) of the Mohawk Valley, New York 113
Carbonate Minerals and Rocks. Interpretation of Sr^{+2} Concentrations in 486
Carbonate Petrology of the Onondaga Limestone (Middle Devonian), New York: A Case for Calcisiltite 268
Carbonate Polymorphs in Warm, Shallow Seawater. Stability of Calcium 1579
Carbonate Rocks in the Black River (Middle Ordovician) Group of Southwestern Ontario, Canada. Supratidal 1530
Carbonate Saturation of Seawater. Diurnal Variations in the 255
Carbonate Sediment, Alexander Archipelago, Alaska. Modern Marine 581
Carbonate Sedimentation by Tidal Channels in the Lower Florida Keys. Recent 531
Carbonate Sedimentation on the Atlantic Continental Shelf off the Southern United States. Aspects of 744
Carbonate Sediments: Sequence and Time Scale. Progressive Diagenesis in Quaternary to Late Tertiary 980
Carbonate Sediments. The Effect of Fresh Water on the Redistribution of Uranium in 1283
Carbonates: A Model of Diagenesis. Experimental Dissolution of Calcium, Magnesium, and Strontium from Recent Biogenic 1057
Carbonates in the Red Sea. Precipitation and Lithification of Deep-Sea 724
Carbonate Size Distribution on the West Florida Shelf and Experimental Studies on the Microarchitectural Control of Skeletal Breakdown. Calcium 902
Carbonate Tidal-Flat, Andros Island, Bahamas. Anatomy of a Modern 1201
Carboniferous Age from Yorkshire, England. A Laminated Marine Shale of 106
Carboniferous Fluvial Basin. The Environmental Significance of Cross Stratification Parameters in an Upper 858
Carboniferous Limestones of the Bonaparte Gulf Basin, Northwest Australia. Associations of Fossils, Grain-Types, and Chemical Constituents in the Upper Devonian and Lower 1118
Carbon in Sediments of Japan Sea. Organic 1390
Carbon in Some Lake Erie and Lake Ontario Sediments. A Note on the Relationship of Grain Size, Clay Content, Quartz, and Organic 803
Carlson, Paul R., article by 1269
Carolina Coast. Distribution and Provenance of Minerals from Continental Shelf Sediments off the South 276
Carolina Cretaceous: Petrographic Reconnaissance of a Graded Shelf. The 18
Carolina Slate Belt, North Carolina. Crystal Molds in Argillites of the 820
Carr, A. P., article by 297
Cavernous Sediment in a Non-Beach Environment. Development of 342
Cecil, C. B., article by 1107
Cemented Sandstone from Outer Continental Shelf off Delaware Bay: Submarine Lithification Mechanism Yields Product Resembling Beachrock.. Aragonite 136
Cements Deduced from Artificial Staining. The Precipitational Environment and Correlation of Some Calcite 787
Cements in Pleistocene-Recent Carbonates from the New Hebrides. Ferroan and Non-Ferroan Calcite 554
Centrifuge Separation of Heavy Minerals: A New Apparatus 815
Cernock, Paul J., article by 1633
Chalk of Texas". Discussion of a Note by J. M. Waite Entitled "Anomalies in the Thermoluminescence of the Austin 395
Chalk of Texas" Reply to Comment by Mc Dougall. "Anomalies in the Thermoluminescence of the Austin 395
Chalk. The Petrology of a Glauconitic Sandy.. 1420
Chamosite in the Recent Sediments of Loch Etive, Scotland 624
Chanda, S. K., article by 1640
Channel at South Amherst, Ohio. Grain Orientation in a Berea Sandstone 737
Channels in the Lower Florida Keys. Recent Carbonate Sedimentation by Tidal 531
Chappell. Recognizing Fossil Strand Lines from Grain-Size Analysis: Comment on a Paper by John 1254
Characteristics of Columbia River Sediment and Sediment Transport 1149
Chatterjee, B. K., article by 1566
Chaudhuri, Sambhudas, article by 364
Chemical Constituents in the Upper Devonian and Lower Carboniferous Limestones of the Bonarparte Gulf Basin, Northwest Australia. Associations of Fossils, Grain-Types, and 1118
Chemical Sediments, and the Mixing of Natural Waters. Diagenesis, ... 1188
Cheng, C-N., article by 345
Chenouard, Lydie, article by 1477
Chesil Beach, England. Size Grading Along a Pebble Beach: 297
Cincinnatian Calcarenites. The American Upper Ordovician Standard. XI. Multivariate Classification of Typical 769
(Cincinnatian) in the Cincinnati Area. Clay Mineralogy of Kope and Fairview Formations 1014
Citronelle Formation of the Gulf Coastal Plain. Heavy Minerals and Size Analysis of the ... 1552
Clams. Deposition of Clastic Sediments by 891
Classification of Typical Cincinnatian Calcarenites. The American Upper Ordovician Standard. XI. Multivaraite 769
Clastic Correlatives (Upper Devonian) of New York State: A Model for Recognition of Alluvial, Dune (?), Tidal, Nearshore (Bar and Lagoon), and Offshore Sedimentary Environments in a Tectonic Delta Complex. The Tully 451

Clastic Sands. The Deformed Nature of Various Size Fractions in Some ... 1182
Clastic Sediments by Clams. Deposition of ... 891
Clay Content, Quartz, and Organic Carbon in Some Lake Erie and Lake Ontario Sediments. A Note on the Relationship of Grain Size, ... 803
Clay Mineral Composition of the Tipton Shale Member of the Green River Formation (Eocene) of Wyoming ... 1593
Clay-Mineralogical Study of Sea Water Solids. Surinam and the African Continent: A ... 1588
Clay Mineralogy of Kope and Fairview Formations (Cincinnatian) in the Cincinnati Area. 1014
Clay Mineralogy and Paleoclimatic Significance of Some Red Regoliths and Associated Rocks in Western Colorado ... 875
Clay Mineral Studies of Sediments and Sedimentary Rocks. Quantification in ... 187
Climatic Changes. Amino Acid Levels in the Argentine Basin Sediments: Correlation with Quaternary ... 345
Coastal Plain. Heavy Minerals and Size Analysis of the Citronelle Formation of the Gulf ... 1552
Coastal Plain. Landward Transport of Bottom Sediments in Estuaries of the Atlantic ... 222
Coastal Plain. The Significance and Limitations of Statistical Parameters for Distinguishing Ancient and Modern Sedimentary Environments of the Lower Georgia ... 559
Coast, Arabian Gulf. Modern Evaporite Deposition and Geochemistry of Coexisting Brines, The Sabkha, Trucial ... 70
Coast. Distribution and Provenance of Minerals from Continental Shelf Sediments off the South Carolina ... 276
Coast. Storms and Sedimentary Processes Along the Northern British Honduras ... 235
Coexisting Brines, The Sabkha, Trucial Coast, Arabian Gulf. Modern Evaporite Deposition and Geochemistry of ... 70
Cohesive Mud Beds. Erosional Current Marks of Weakly ... 607
Colley, Howard, article by ... 554
Collinson, John D., article by ... 194
Colorado, Area. Stratigraphy and Petrology of the Morrison Formation (Jurassic) of the Canon City, ... 632
Colorado. Clay Mineraolgy and Paleoclimatic Significance of Some Red Regoliths and Associated Rocks in Western ... 875
Colorado. Petrology of Gartra Formation (Triassic), Uinta Mountain Area, Utah and ... 1484
Columbia River Sediment and Sediment Transport. Characteristics of ... 1149
Columbia River Sediment Samples. Quantitative Statistical Analyses of ... 1167
Composition in Pebble Counts. Relationships of Size and ... 1243
Concentrations in Carbonate Minerals and Rocks. Interpretation of Sr^{+2} ... 486
Concretions, Kiowa Formation (Early Cretaceous), North-Central Kansas. Synaeresis Features and Genesis of Siderite ... 799
Cone-In-Cone Structures in the Kiowa Formation (Early Cretaceous), North-Central Kansas. Nature, Origin, and Significance of ... 1438
Conglomerate (Triassic, Massachusetts). Antidunes in the Mount Toby ... 1310
Consolidated Marine Sediments. Microstructure of Unconsolidated and ... 1546
Contact Gage for Rapid and Accurate Three-Dimensional Grain Size Measurement of Loose Sand Particles. A ... 793
Continent: A Clay-Mineralogical Study of Sea Water Solids. Surinam and the African ... 1588
Continental Rise Hills" off Cape Hatteras. Linear "Lower ... 1132
Continental Shelf off Delaware Bay: Submarine Lithification Mechanism Yields Product Resembling Beachrock. Aragonite Cemented Sandstone from Outer ... 136
Continental Shelf off the Southern United States. Aspects of Carbonate Sedimentation on the Atlantic ... 744
Continental Shelf Sediments off the South Carolina Coast. Distribution and Provenance of Minerals from ... 276
Convection and Grain Size Analysis." Discussion of the Paper "Settling ... 1641
Cook, David O., article by ... 781
Core Analysis Technique Using X-Rays. A Non-Destructive ... 1371
Corer for Use in Water Saturated Sediments. A Hydraulic ... 1619
Core Scintillation Counter for Bulk Density Measurement in Marine Sediment Cores. Preliminary Evaluation of a ... 1509
Cores. Gamma Ray Spectrometry as a Tool for a Rapid Investigation of Detritic ... 1477
Cores Within Plastic Liners. Procedure for Shipboard Measurement of pH and Eh in Sediment ... 1247
Coring Platform for Shallow Estaurine Waters. An Inexpensive ... 1238
Correlation of Some Calcite Cements Deduced from Artificial Staining. The Precipitational Environment and ... 787
Counting Grain Mounts: Number Percentage vs. Number Frequency ... 812
Counts. Relationship of Size and Composition in Pebble ... 1243
Cretaceous), Fairway Field, Texas. Algal Stromatolites in the James Reef Complex (Lower ... 1466
Cretaceous), North-Central Kansas. Nature, Origin, and Significance of Cone-In-Cone Structures in the Kiowa Formation (Early ... 1438
Cretaceous), North-Central Kansas. Synaeresis Features and Genesis of Siderite Concretions, Kiowa Formation (Early ... 799
Cretaceous: Petrographic Reconnaissance of a Graded Shelf. The Carolina ... 18
Cretaceous Rocks of Utah. Large Non-Tectonic Deformational Structures from Upper ... 1032
Cross Stratification Parameters in an Upper Carboniferous Fluvial Basin. The Environmental Significance of ... 858
Crust? Geosynclines: What Contribution to the 150
"Cryptalgalaminate". On the Term ... 396
Crystal Molds in Argillites of the Carolina Slate Belt, North Carolina ... 820
Crystals in the Lower Almond Formation in South-west Wyoming". Note on an Article by G. B. Asquith Entitled "Origin of Large Kaolinite ... 1255
Current Marks of Weakly Cohesive Mud Beds. Erosional ... 607
Currents. Direct Illustration of One Way Sand Transport by Tidal ... 1249
Cyclic Alluvial Sediments. Markov Analysis of ... 330
Cyclic Geosynclinal Sedimentation: A Petrographic Evaluation ... 1325
Cys, J. M., article by ... 396

Davies, David K., article by ... 1344
Davies, P. J., article by ... 554
Day, G. F., article by ... 373

"Dedolomitization". Devaluation of..... 379
Dedolomitization in the Albian-Cenomanian Yagur Dolomite on Mount Carmel (Northern Israel). Diagenetic..... 380
Deep-Sea Carbonates in the Red Sea. Precipitation and Lithification of..... 724
Deformational Structures from Upper Cretaceous Rocks of Utah. Large Non-Tectonic.. 1032
Deformed Nature of Various Size Fractions in Some Clastic Sands. The..... 1182
Delaware Bay: Submarine Lithification Mechanism Yields Product Resembling Beachrock. Aragonite-Cemented Sandstone from Outer Continental Shelf off..... 136
Delta Complex. The Tully Clastic Correlatives (Upper Devonian) of New York State: A Model for Recognition of Alluvial, Dune (?), Tidal, Nearshore (Bar and Lagoon), and Offshore Sedimentary Environments in a Tectonic..... 451
Deltaic Complex in the Namurian of Northern England. The Sedimentology of the Grindslow Shales and the Kinderscout Grit: A.. 194
Delta, U.A.R. Geological and Mineralogical Studies of Some Sand Deposits in the Nile.. 1520
Density Measurement in Marine Sediment Cores. Preliminary Evaluation of a Core Scintillation Counter for Bulk..... 1509
Depositional Processes. Grain Size Distributions and..... 1074
Deposition and Geochemistry of Coexisting Brines, The Sabkha, Trucial Coast, Arabian Gulf. Modern Evaporite..... 70
Deposition of Clastic Sediments by Clams..... 891
Deposition of Pyroclastic Material on a Soil Profile. External and Internal Undersurface Features Produced by Subaerial..... 360
Destruction of Plagioclase Twins by Stream Transport..... 1432
Determination of *n* in Weight Frequency Data. 1473
Detritic Cores. Gamma Ray Spectrometry as a Tool for a Rapid Investigation of..... 1477
Detroit River Formation (Middle Devonian) in Northern Indiana: Discussion of a Paper by L. F. Rooney and R. R. French. The Origin of Penemosaic Texture in Evaporites of the. 1256
Detroit River Formation (Middle Devonian) in Northern Indiana: Reply to Discussion by D. A. Holliday. Allogenic Quartz and the Origin of Penemosaic Texture in Evaporites of the..... 1258
Devaluation of "Dedolomitization"..... 379
Development of Cavernous Sediment in a Non-Beach Environment..... 342
Devonian and Lower Carboniferous Limestones of the Bonaparte Gulf Basin, Northwest Australia. Associations of Fossils, Grain-Types, and Chemical Constituents in the Upper..... 1118
Devonian) in Northern Indiana: Discussion of a Paper by L. F. Rooney and R. R. French. The Origin of Penemosaic Texture in Evaporites of the Detroit River Formation (Middle..... 1256
Devonian) in Northern Indiana: Reply to Discussion by D. A. Holliday. Allogenic Quartz and the Origin of Penemosaic Texture in Evaporites of the Detroit River Formation (Middle..... 1258
Devonian Lagoonal Bank Near Alpena, Michigan. Genesis and Environmental Energy of a..... 509
Devonian) of New York State: A Model for Recognition of Alluvial, Dune (?), Tidal, Nearshore (Bar and Lagoon), and Offshore Sedimentary Environments in a Tectonic Delta Complex. The Tully Clastic Correlatives (Upper..... 451
Devonian), New York: A Case for Calcisiltite. Carbonate Petrology of the Onondaga Limestone (Middle..... 268
Diagenesis and Dolomitization of a Limestone (Pennsylvanian of Missouri) as Revealed by Staining..... 1040
Diagenesis, Chemical Sediments, and the Mixing of Natural Waters..... 1188
Diagenesis. Experimental Dissolution of Calcium, Magnesium, and Strontium from Recent Biogenic Carbonates: A Model of.... 1057
Diagenesis in Quaternary to Late Tertiary Carbonate Sediments: Sequence and Time Scale. Progressive..... 980
Diagenesis of Oolitic Calcarenites in the Ste. Genevieve Limestone (Mississippian), Missouri. Dispersal Patterns and..... 954
Diagenetic Dedolomitization in the Albian-Cenomanian Yagur Dolomite on Mount Carmel (Northern Israel)..... 380
Differential Sorting of Pelecypod Values in the Swash Zone..... 159
Diffraction Analysis of Heavy Minerals. X-Ray. 1384
Dill, C. E. Jr., article by..... 18
Dionne, Jean-Claude, article by..... 358
Dionne, Jean-Claude, article by..... 1174
Direct Illustration of One Way Sand Transport by Tidal Currents..... 1249
Disaggregation of Sandstones and Siltstones. Ultrasonic..... 375
Discussion of a Note by J. M. Waite Entitled "Anomalies in the Thermoluminescence of the Austin Chalk of Texas."..... 395
Discussion of a Paper by L. F. Rooney and R. R. French. The Origin of Penemosaic Texture in Evaporites of the Detroit River Formation (Middle Devonian) in Northern Indiana:..... 1256
Discussion of the Paper "Settling Convection and Grain Size Analysis."..... 1641
Dispersal Patterns and Diagenesis of Oolitic Calcarenites in the Ste. Genevieve Limestone (Mississippian), Missouri..... 954
Dispersal Patterns of Pennsylvanian Sandstones in the Michigan Basin..... 1229
Distribution and Provenance of Minerals from Continental Shelf Sediments off the South Carolina Coast..... 276
Distribution Curves. Granulometer—A Sediment Analyzer Directly Writing Grain Size. 1627
Distribution, Morphology, and Accretion Rate of Recent Subtidal Algal Stromatolites, Bermuda..... 49
Distribution on the West Florida Shelf and Experimental Studies on the Microarchitectural Control of Skeletal Breakdown. Calcium Carbonate Size..... 902
Distributions and Depositional Processes. Grain Size..... 1074
Distributions. Skewness and Kurtosis as Criteria of Normality in Observed Frequency..... 1622
Diurnal Variations in the Carbonate Saturation of Seawater..... 255
Dolomite on Mount Carmel (Northern Israel). Diagenetic Dedolomitization in the Albian-Cenomanian Yagur..... 380
Dolomitization Model. Hydrology of South Bonaire, N.A.—A Rock Selective..... 1007
Dolomitization of a Limestone (Pennsylvanian of Missouri) as Revealed by Staining. Dia-

genesis and ... 1040
Donahue, Jack, article by ... 1399
Doyle, L. J., article by ... 744
Dune Reddening and Time ... 7
Dune (?), Tidal, Nearshore (Bar and Lagoon), and Offshore Sedimentary Environments in a Tectonic Delta Complex. The Tully Clastic Correlatives (Upper Devonian) of New York State: A Model for Recognition of Alluvial ... 451

Effect of Fresh Water on the Redistribution of Uranium in Carbonate Sediments. The ... 1283
Eh in Sediment Cores Within Plastic Liners. Procedure for Shipboard Measurement of pH and ... 1247
Electron Microscope. A Surface Replica Technique for the Examination of Quartz Sand Grains in the ... 1608
Electron Microscope. Authigenic Mineral Growths as Revealed by the Scanning ... 1596
Electron Microscope. Study of the Fabric of Fine-Grained Sediments with the Scanning ... 90
Emery, K. O., article by ... 1390
Energy of a Devonian Lagoonal Bank Near Alpena, Michigan. Genesis and Environmental ... 509
England. A Laminated Marine Shale of Carboniferous Age from Yorkshire ... 106
England. Size Grading Along a Pebble Beach: Chesil Beach ... 297
England. The Sedimentology of the Grindslow Shales and the Kinderscout Grit: A Deltaic Complex in the Namurian of Northern ... 194
Enos, Paul, article by ... 680
Environmental Energy of a Devonian Lagoonal Bank Near Alpena, Michigan. Genesis and ... 509
Environmental Significance of Cross Stratification Parameters in an Upper Carboniferous Fluvial Basin. The ... 858
Environment and Correlation of Some Calcite Cements Deduced from Artifical Staining. The Precipitational ... 787
Environment. Development of Cavernous Sediment in a Non-Beach ... 342
Environment. Mud Pebbles in a Flash Floods ... 333
Environments in a Tectonic Delta Complex. The Tully Clastic Correlatives (Upper Devonian) of New York State: A Model for Recognition of Alluvial, Dune (?), Tidal, Nearshore (Bar and Lagoon), and Offshore Sedimentary ... 451
Environments of the Lower Georgia Coastal Plain. The Significance and Limitations of Statistical Parameters for Distinguishing Ancient and Modern Sedimentary ... 559
Environments of the Tribes Hill Formation (Lower Ordovician) of the Mohawk Valley, New York. Carbonate Lithofacies and ... 113
(Eocene) of Wyoming. Clay Mineral Composition of the Tipton Shale Member of the Green River Formation ... 1593
Eolian Microridges on Modern Beaches and a Possible Ancient Example ... 1573
Epicontinental Basin. Tectonics and Sedimentation in a Precambrian Shallow ... 1566
Epoxide, and Unsaturated Polyester Resins. Rock Impregnation Trials Using Monomers, ... 1251
Epoxy Relief-Peels in Sandy Sediments Saturated with Saltwater. A Field Technique for Making ... 338
Erie and Lake Ontario Sediments. A Note on the Relationship of Grain Size, Clay Content, Quartz, and Organic Carbon in Some Lake ... 803
Erosional Current Marks of Weakly Cohesive Mud Beds ... 607
Erosion by Ice at La Pocatiere, St. Lawrence Estuary. Tidal Flat ... 1174
Estes, Ernest, article by ... 744
Estuaries of the Atlantic Coastal Plain. Landward Transport of Bottom Sediments in ... 222
Estuarine Waters. An Inexpensive Coring Platform for Shallow ... 1238
Estuary. Tidal Flat Erosion by Ice at La Pocatiere, St. Lawrence ... 1174
Evamy, B. D., article by ... 787
Evaporite Deposition and Geochemistry of Coexisting Brines, The Sabkha, Trucial Coast, Arabian Gulf. Modern ... 70
Evaporites of the Detroit River Formation (Middle Devonian) in Northern Indiana: Discussion of a Paper by L. F. Rooney and R. R. French. The Origin of Penemosiac Texture in ... 1256
Evaporites of the Detroit River Formation (Middle Devonian) in Northern Indiana: Reply to Discussion by D. A. Holliday. Allogenic Quartz and the Origin of Penemosaic Texture in ... 1258
Experimental Dissolution of Calcium, Magnesium, and Strontium from Recent Biogenic Carbonates: A Model of Diagenesis ... 1057
Experimental Investigation of Pressure Solution of Quartz ... 1107
Experimental Studies on the Microarchitectural Control of Skeletal Breakdown. Calcium Carbonate Size Distribution on the West Florida Shelf and ... 902
External and Internal Undersurface Features Produced by Subaerial Deposition of Pyroclastic Material on a Soil Profile ... 360
Extraclasts: A Discussion. Calclithite Fragments vs ... 1640

Fabric of Fine-Grained Sediments with the Scanning Electron Microscope. Study of the ... 90
Facies and Paleography of the Blackjack Creek Formation (Pennsylvanian), Missouri. Carbonate ... 34
Fairview Formations (Cincinnatian) in the Cincinnati Area. Clay Mineralogy of Kope and ... 1014
Fairway Field, Texas. Algal Stromatolites in the James Reef Complex (Lower Cretaceous) ... 1466
Fan, California. Bioturbation of Holocene Sediments on LaJolla Deep Sea ... 601
Felix, David W., article by ... 777
Ferroan and Non-Ferroan Calcite Cements in Pleistocene-Recent Carbonates from the New Hebrides ... 554
Field Technique for Making Epoxy Relief-Peels in Sandy Sediments Saturated with Saltwater. A ... 338
Fine-Grained Sediments with the Scanning Electron Microscope. Study of the Fabric of ... 90
Flathead Sandstone (Middle Cambrian), Montana. The Isotopic Age of the ... 364
Flemal, Ronald C., article by ... 1616
Floods Environment. Mud Pebbles in a Flash ... 333
Florida Keys. Recent Carbonate Sedimentation by Tidal Channels in the Lower ... 531
Florida Shelf and Experimental Studies on the Microarchitectural Control of Skeletal

Breakdown. Calcium Carbonate Size Distribution on the West ... 902
Fluvial Basin. The Environmental Significance of Cross Stratification Parameters in an Upper Carboniferous ... 858
Flysch. Anatomy of a ... 680
Folkman, Yehoshua, article by ... 380
Force, L. M., article by ... 902
Fossils, Grain-Types, and Chemical Constituents in the Upper Devonian and Lower Carboniferous Limestones of the Bonaparte Gulf Basin, Northwest Australia. Associations of ... 1118
Fossil Strand Lines from Grain-Size Analysis: Comment on a Paper by John Chappell. Recognizing ... 1254
Fragments. A Rapid Method for the Determination of Shape, Sphericity, and Size of Gravel ... 797
Franklin, John A., article by ... 1251
Franks, P. C., article by ... 1438
Franks, Paul C., article by ... 799
Freeth, S. J., article by ... 797
French. The Origin of Penemosaic Texture in Evaporites of the Detroit River Formation (Middle Devonian) in Northern Indiana: Discussion of a Paper by L. F. Rooney and R. R. ... 1256
Frequency. Counting Grain Mounts: Number Percentage vs. Number ... 812
Frequency Distributions from Thin-Section Data. Grain Size ... 1598
Frequency Distributions. Skewness and Kurtosis as Criteria of Normality in Observed ... 1622
Fresh Water on the Redistribution of Uranium in Carbonate Sediments. The Effect of ... 1283
Friedman, Gerald M. article by ... 113
Friedman, Gerald M., article by ... 136
Friedman, Gerald M., article by ... 451
Friedman, Gerald M., article by ... 980
Friedman, Gerald M., article by ... 1247
Friedman, Gerald M., article by ... 1283
Friedman, Gerald M., article by ... 1371

Gafford, E. L., article by ... 369
Gage for Rapid and Accurate Three-Dimensional Grain Size Measurement of Loose Sand Particles. A Contact ... 793
Galehouse, Jon S., article by ... 812
Gamma Ray Spectrometry as a Tool for a Rapid Investigation of Detritic Cores ... 1477
Gartra Formation (Triassic), Uinta Mountain Area, Utah and Colorado. Petrology of ... 1484
Gates, G. L., article by ... 12
Gavish, Eliezer, article by ... 136
Gavish, Eliezer, article by ... 980
Gebelein, C. D., article by ... 49
Genesis and Environmental Energy of a Devonian Lagoonal Bank Near Alpena, Michigan ... 509
Genesis of Oolite and Pisolite Grains: An Energy Index ... 1399
Genesis of Siderite Concretions, Kiowa Formation (Early Cretaceous), North-Central Kansas. Synaeresis Features and ... 799
Geochemical and Mineralogical Observations. Weathering of an Antarctic Argillite: Field, ... 369
Geochemistry of Coexisting Brines, The Sabkha, Trucial Coast, Arabian Gulf. Modern Evaporite Deposition and ... 70
Geological and Mineralogical Studies of Some Sand Deposits in the Nile Delta, U.A.R. ... 1520
Georgia Coastal Plain. The Significance and Limitations of Statistical Parameters for Distinguishing Ancient and Modern Sedimentary Environments of the Lower ... 559
Geosynclinal Sedimentation: A Petrographic Evaluation. Cyclic ... 1325
Geosynclines: What Contribution to the Crust? 150
Gifford, John A., article by ... 1619
Gillott, J. E., article by ... 90
Gingerich, P. D., article by ... 330
Ginsburg, R. N., article by ... 1201
Glacial Marine Sediments from the Northeast Pacific ... 1142
Glauconitic Sandy Chalk. The Petrology of a ... 1420
Govinda Rajulu, B. V., article by ... 391
Graded Shelf. The Carolina Cretaceous: Petrographic Reconnaissance of a ... 18
Grading Along a Pebble Beach: Chesil Beach, England. Size ... 297
Grained Sediments with the Scanning Electron Microscope. Study of the Fabric of Fine- ... 90
Grain Mounts: Number Percentage vs. Number Frequency. Counting ... 812
Grain Orientation in a Berea Sandstone Channel at South Amherst, Ohio ... 737
Grain Orientation in Vicksburg Loess ... 969
Grains: An Energy Index. Genesis of Oolite and Pisolite ... 1399
Grains in the Electron Microscope. A Surface Replica Technique for the Examination of Quartz Sand ... 1608
Grain-Size Analysis: Comment on a Paper by John Chappell. Recognizing Fossil Strand Lines from ... 1254
Grain Size Analysis." Discussion of the Paper Settling Convection and ... 1641
Grain Size Analysis of Longshore-Bars and Troughs, Lake Superior, Ontario. A ... 1317
Grain-Size Analysis. Porosity and Permeability of Unconsolidated, Upper Miocene Sands from ... 312
Grain Size, Clay Content, Quartz, and Organic Carbon in Some Lake Erie and Lake Ontario Sediments. A Note on the Relationship of ... 803
Grain Size Distribution Curves. Granulometer—A Sediment Analyzer Directly Writing ... 1627
Grain Size Distributions and Depositional Processes ... 1074
Grain Size-Frequency Distributions from Thin-Section Data ... 1598
Grain Size Measurement of Loose Sand Particles. A Contact Gage for Rapid and Accurate Three-Dimensional ... 793
Grain Surfaces by Interference Microscopy. The Study of Mineral- ... 1599
Grain-Types, and Chemical Constituents in the Upper Devonian and Lower Carboniferous Limestones of the Bonaparte Gulf Basin, Northwest Australia. Associations of Fossils ... 1118
Gram, Ralph, article by ... 1599
Granulometer—A Sediment Analyzer Directly Writing Grain Size Distribution Curves ... 1627
Gravel Fragments. A Rapid Method for the Determination of Shape, Sphericity, and Size of ... 797
Gravity Separation of Minerals. Nitrobenzene-Tetrabromoethane Solutions for the ... 1610
Gray, N. H., article by ... 1598
Green River Formation (Eocene) by Wyoming. Clay Mineral Composition of the Tipton Shale Member of the ... 1593

Gregg, Robert Q., article by ... 1596
Greywacke and its Implication to the Taconics. Trend Surface Analysis Applied to the Rensselaer ... 176
Greywackes, Berwyn Hills, North Wales. The Origin of Matrix in Ordovician ... 1297
Griffiths, J. C., article by ... 176
Griggs, G. B., article by ... 1142
Grimsby Sandstone (Lower Silurian) of Ontario and New York. Petrology of the ... 512
Grindslow Shales and the Kinderscout Grit: A Deltaic Complex in the Namurian of Northern England. The Sedimentology of the ... 194
Gulf Coastal Plain. Heavy Minerals and Size Analysis of the Citronelle Formation of the ... 1552
Gulf. Modern Evaporite Deposition and Geochemistry of Coexisting Brines, The Sabkha Trucial Coast, Arabian ... 70
Gulf of Mexico. Iron Rich Layers in Sediments from the ... 1412
Gulf of Mexico. Salinities of Interstitial Waters from Selected Sediments in the ... 1633

Haglund, Davis S., article by ... 1283
Hails, J. R., article by ... 559
Halite Thin-Sections. A Method for the Preparation of ... 799
Hand, Bryce M., article by ... 1302
Hand, Bryce M., article by ... 1310
Hanson, Larry, article by ... 1149
Hayes, Miles O., article by ... 1310
Heald, M. T., article by ... 1107
Heavy Minerals and Size Analysis of the Citronelle Formation of the Gulf Coastal Plain ... 1552
Heavy Minerals: A New Apparatus. Centrifuge Separation of ... 815
Heavy Minerals in Shales. Intrastratal Solution and Non-Opaque ... 591
Heavy Minerals in the Sespe Formation (California). Iron-Bearing ... 1616
Heavy Minerals. X-Ray Diffraction Analysis of ... 1384
Heling, Dietrich, article by ... 246
Heron, S. D. Jr., article by ... 18
Hess, F. R., article by ... 1238
Hester, N. C., article by ... 1384
High, L. R., Jr., article by ... 235
Hilmy, E., article by ... 1520
Holliday. Allogenic Quartz and the Origin of Penemosaic Texture in Evaporites of the Detroit River Formation (Middle Devonian) in Northern Indiana: Reply to Discussion by D. A. ... 1258
Holliday, Douglas, article by ... 1256
Holocene Sediments on LaJolla Deep Sea Fan, California. Bioturbation of ... 601
Honduras Coast. Storms and Sedimentary Processes Along the Northern British ... 235
Hoof-Print Structures in Beach Sand ... 350
Hornby, M. R., article by ... 1608
Hoskin, C. M., article by ... 581
Howard, J. D., article by ... 385
Howard, James D., article by ... 1032
Hoyt, J. H., article by ... 559
Hubert, John F., article by ... 954
Huff, W. D., article by ... 1014
Hunter, Ralph E., article by ... 1573
Huppler, J. D., article by ... 312
Hydraulic Corer for Use in Water Saturated Sediments. A ... 1619
Hydrology of South Bonaire, N.A.—A Rock Selective Dolomitization Model ... 1007

Ice at La Pocatiere, St. Lawrence Estuary. Tidal Flat Erosion by ... 1174
Immobile Fraction of Pore Water in Saturated Permeable Sandstone. Irmay's Saturation Factor as an Indication of an ... 12
Impregnation Trials Using Monomers, Epoxide, and Unsaturated Polyester Resins. Rock ... 1251
Interference Microscopy. The Study of Mineral-Grain Surfaces by ... 1599
Interstitial Waters from Selected Sediments in the Gulf of Mexico. Salinities of ... 1633
Inden, R. F., article by ... 342
Indiana: Discussion of a Paper by L. F. Rooney and R. R. French. The Origin of Penemosaic Texture in Evaporites of the Detroit River Formation (Middle Devonian) in Northern ... 1256
Indiana: Reply to Discussion by D. A. Holliday. Allogenic Quartz and the Origin of Penemosaic Texture in the Evaporites of the Detroit River Formation (Middle Devonian) in Northern ... 1258
Inexpensive Coring Platform for Shallow Estuarine Waters. An ... 1238
Inexpensive Recording Settling Tube for Analysis of Sands. An ... 777
Inexpensive Portable Vibrocorer for Sampling Unconsolidated Sands. An ... 385
Internal Undersurface Features Produced by Subaerial Deposition of Pyroclastic Material on a Soil Profile. External and ... 360
Interpretation of Sr^{+2} Concentrations in Carbonate Minerals and Rocks ... 486
Intrastratal Solution and Non-Opaque Heavy Minerals in Shales ... 591
Irion, Georg, article by ... 1604
Irmay's Saturation Factor as an Indication of an Immobile Fraction of Pore Water in Saturated Permeable Sandstone ... 12
Iron-Bearing Heavy Minerals in the Sespe Formation (California) ... 1616
Iron Rich Layers in Sediments from the Gulf of Mexico ... 1412
Isotopic Age of the Flathead Sandstone (Middle Cambrian), Montana. The ... 364
Israel). Diagenetic Dedolomitization in the Albian-Cenomanian Yagur Dolomite on Mount Carmel (Northern ... 380
Israel). Petrology of Siliceous Rocks in the Mishash Formation (Negev, ... 166

James Reef Complex (Lower Cretaceous) Fairway Field, Texas. Algal Stromatolites in the ... 1466
Jamkhandi, Mysore State. Authigenic Tourmalines from the Lower Kaladgi Sandstones ... 391
Jammu Province, Jammu and Kashmir State. Petrography of the Sirban Limestone of Riasi, ... 1023
Japan Sea. Organic Carbon in Sediments of ... 1390
Jindrich, Vladimir, article by ... 531
Johnson, J. Harlan, article by ... 1466
Johnson, K. G., article by ... 451
Jones, Thomas A., article by ... 1473
Jones, Thomas A., article by ... 1622
Joint-Free Sample Splitter. Note on a Non-Laminated ... 373
Jurassic of Britain. Shelf Sedimentation: An Example from the ... 1344
(Jurassic) of the Canon City, Colorado, Area. Stratigraphy and Petrology of the Morrison Formation ... 632

Kansas. Nature, Origin, and Significance of Cone-In-Cone Structures in the Kiowa Formation (Early Cretaceous), North-Central 1438
Kansas. Synaeresis Features and Genesis of Siderite Concretions, Kiowa Formation (Early Cretaceous), North-Central 799
Kaolinite Crystals in the Lower Almond Formation in South-west Wyoming". Note on an Article by G. B. Asquith Entitled "Origin of Large 1255
Karcz, Iaakov, article by 333
Kashmir State. Petrography of the Sirban Limestone of Riasi, Jammu Province, Jammu and 1023
Kelley, James C., article by 1149
Kelley, James C., article by 1167
Kelling, Gilbert, article by 858
Kenyon, Neil H., article by 1249
Kholief, M. M., article by 1520
Kim, Chul Min, article by 1390
Kinderscout Grit: A Deltaic Complex in the Namurian of Northern England. The Sedimentology of the Grindslow Shales and the 194
Kinsman, David J. J., article by 486
Kiowa Formation (Early Cretaceous), North-Central Kansas. Nature, Origin, and Significance of Cone-In-Cone Structures in the 1438
Kiowa Formation (Early Cretaceous), North-Central Kansas. Synaeresis Features and Genesis of Siderite Concretions, 799
Klein, G. de V., article by 338
Knewtson, Stephen L., article by 954
Kolodny, Yehoshua, article by 166
Kope and Fairview Formations (Cincinnatian) in the Cincinnati Area. Clay Mineralogy of 1014
Krishnaswami, S. P., article by 1023
Krüger, Louis, article by 1046
Kulm, L. D., article by 1142
Kuenen, Ph. H., article by 1631
Kumar, Naresh, article by 1247
Kurtosis as Criteria of Normality in Observed Frequency Distributions. Skewness and 1622
Ku, Teh-Lung, article by 724

Lagoonal Bank Near Alpena, Michigan, Genesis and Environmental Energy of a Devonian 509
Lagoon), and Offshore Sedimentary Environments in a Tectonic Delta Complex. The Tully Clastic Correlatives (Upper Devonian) of New York State: A Model for Recognition of Alluvial, Dune (?), Tidal, Nearshore (Bar and 451
LaJolla Deep Sea Fan, California. Bioturbation of Holocene Sediments on 601
Lake Erie and Lake Ontario Sediments. A Note on the Relationship of Grain Size, Clay Content, Quartz, and Organic Carbon in Some 803
Lake Ontario Sediments. A Note on the Relationship of Grain Size, Clay Content, Quartz, and Organic Carbon in Some Lake Erie and 803
Lake Superior, Ontario. A Grain Size Analysis of Longshore-Bars and Troughs, 1317
Lalou, Claude, article by 1477
Laminated Marine Shale of Carboniferous Age from Yorkshire, England. A 106
Landward Transport of Bottom Sediments in Estuaries of the Atlantic Coastal Plain 222
La Pocatiere, St. Lawrence Estuary. Tidal Flat Erosion by Ice at 1174
Large Non-Tectonic Deformational Structures from Upper Cretaceous Rocks of Utah 1032
Lawson, R. I., article by 373
Lené, G. W., article by 737
Limestone (Middle Devonian), New York: A Case for Calcisiltite. Carbonate Petrology of the Onondaga 268
Limestone (Mississippian), Missouri. Dispersal Patterns and Diagenesis of Oolitic Calcarenites in the Ste. Genevieve 954
Limestone of Riasi, Jammu Province, Jammu and Kashmir State. Petrography of the Sirban 1023
Limestone (Pennsylvanian of Missouri) as Revealed by Staining. Diagenesis and Dolomitization of a 1040
Limestones of the Bonaparte Gulf Basin, Northwest Australia. Associations of Fossils, Grain-Types, and Chemical Constituents in the Upper Devonian and Lower Carboniferous 1118
Limitations of Statistical Parameters for Distinguishing Ancient and Modern Sedimentary Environments of the Lower Georgia Coastal Plain. The Significance and 559
Linear "Lower Continental Rise Hills" off Cape Hatteras 1132
Lindholm, Roy C., article by 268
Lithification Mechanism Yields Product Resembling Beachrock. Aragonite-Cemented Sandstone from Outer Continental Shelf off Delaware Bay: Submarine 136
Lithification of Deep-Sea Carbonates In the Red Sea. Precipitation and 724
Lithofacies and Environments of the Tribes Hill Formation (Lower Ordovician) of the Mohawk Valley, New York. Carbonate 113
Lloyd, R. Michael, article by 1201
Loch Etive, Scotland. Chamosite in the Recent Sediments of 624
Loess. Grain Orientation in Vicksburg 969
Lohrengel, C. Frederick II, article by 1032
Longshore-Bars and Troughs, Lake Superior, Ontario. A Grain Size Analysis of 1317
Lovell, J. P. B., article by 935
Lower Almond Formation, South-west Wyoming." Note on an Article by G. B. Asquith entitled "Origin of Large Kaolinite Crystals in the 1255
Lower Kaladgi Sandstones, Jamkhandi, Mysore State. Authigenic Tourmalines from the 391
(Lower Ordovician) of the Mohawk Valley, New York. Carbonate Lithofacies and Environments of the Tribes Hill Formation 113
(Lower Silurian) of Ontario and New York. Petrology of the Grimsby Sandstone 521
Lumsden, David N., article by 521
Lyall, Anil, article by 1254

Magnesium, and Strontium from Recent Biogenic Carbonates: A Model of Diagenesis. Experimental Dissolution of Calcium, 1057
Manger, G. E., article by 12
Marine Sediment Cores. Preliminary Evaluation of a Core Scintillation Counter for Bulk Density Measurement in 1509
Marine Sediments from the Northeast Pacific. Glacial 1142
Marine Sediments. Microstructure of Unconsolidated and Consolidated 1546
Marine Shale of Carboniferous Age from Yorkshire, England. A Laminated 106
Marine Carbonate Sediment, Alexander Archipelago, Alaska. Modern 581

Markov Analysis of Cyclic Alluvial Sediments... 330
Marsh Sediments. The Shear Strength of Tidal.. 322
Marshall, N. F., article by..... 601
Massachusetts). Antidunes in the Mount Toby Conglomerate (Triassic,..... 1310
Matalucci, Rudolph V., article by..... 969
Matrix in Ordovician Greywackes, Berwyn Hills, North Wales. The Origin of..... 1297
McCormick, C. D., article by..... 1484
McDougall. "Anomalies in the Thermoluminescence of the Austin Chalk of Texas" Reply to Comment by..... 395
McDougall, D. J., article by..... 395
McLaughlin, W. A., article by..... 1610
Meade, R. H., article by..... 222
Measurement of Loose Sand Particles. A Contact Gage for Rapid and Accurate Three-Dimensional Grain Size..... 793
Measurement of Ph and Eh in Sediment Cores Within Plastic Liners. Procedure for Shipboard..... 1247
Method for the Preparation of Halite Thin-Sections. A..... 799
Mexico. Iron Rich Layers in Sediments from the Gulf of..... 1412
Mexico. Salinites of Interstitial Waters from Selected Sediments in the Gulf of..... 1633
Michigan Basin. Dispersal Patterns of Pennsylvanian Sandstones in the..... 1229
Michigan. Genesis and Environmental Energy of a Devonian Lagoonal Bank Near Alpena, 509
Microarchitectural Control of Skeletal Breakdowns. Calcium Carbonate Size Distribution on the West Florida Shelf and Experimental Studies on the..... 902
Microridges on Modern Beaches and a Possible Ancient Example. Eolian..... 1573
Microscope. A Surface Replica Technique for the Examination of Quartz Sand Grains in the Electron..... 1608
Microscope. Authigenic Mineral Growths as Revealed by the Scanning Electron..... 1596
Microscope. Study of the Fabric of Fine-Grained Sediments with the Scanning Electron.... 90
Microscopy. The Study of Mineral-Grain Surfaces by Interference..... 1599
Microstructure of Unconsolidated and Consolidated Marine Sediments..... 1546
(Middle Cambrian), Montana. The Isotopic Age of the Flathead Sandstone..... 364
(Middle Devonian) in Northern Indiana: Discussion of a Paper by L. F. Rooney and R. R. French. The Origin of Penemosaic Texture in Evaporites of the Detroit River Formation..... 1256
(Middle Devonian) in Northern Indiana: Reply to Discussion by D. A. Holliday. Allogenic Quartz and the Origin of Penemosaic Texture in Evaporites of the Detroit River Formation..... 1258
(Middle Devonian), New York: A Case for Calcisiltite. Carbonate Petrology of the Onondaga Limestone..... 268
Miller, Donald S., article by..... 1283
Milliman, J. D., article by..... 724
Mineral Composition of the Tipton Shale Member of the Green River Formation (Eocene) of Wyoming. Clay..... 1593
Mineral-Grain Surfaces by Interference Microscopy. The Study of..... 1599
Mineral Growths as Revealed by the Scanning Electron Microscope. Authigenic..... 1596
Mineralogical Observations. Weathering of an Anarctic Argillite: Field, Geochemical, and. 369
Mineralogical Studies of Some Sand Deposits in the Nile Delta, U.A.R. Geological and..... 1520
Mineralogical Study of Sea Water Solids. Surinam and the African Continent: A Clay-... 1588
Mineralogy and Paleoclimatic Significance of Some Red Regoliths and Associated Rocks in Western Colorado. Clay..... 875
Mineralogy of Kope and Fairview Formations (Cincinnatian) in the Cincinnati Area. Clay 1014
Minerals and Rocks. Interpretation of Sr^{+2} Concentrations in Carbonate..... 486
Minerals and Size Analysis of the Citronelle Formation of the Gulf Coastal Plain. Heavy... 1552
Minerals: A New Apparatus. Centrifuge Separation of Heavy..... 815
Minerals from Continental Shelf Sediments off the South Carolina Coast. Distribution and Provenance of..... 276
Minerals in Shales. Intrastratial Solution and Non-Opaque Heavy..... 591
Minerals in the Sespe Formation (California). Iron-Bearing Heavy..... 1616
Minerals. Nitrobenzene-Tetrabromoethane Solutions for the Gravity Separation of..... 1610
Mineral Studies of Sediments and Sedimentary Rocks. Quantification in Clay..... 187
Minerals. X-Ray Diffraction Analysis of Heavy. 1384
Miocene Sands from Grain-Size Analysis. Porosity and Permeability of Unconsolidated, Upper..... 312
Mishash Formation (Negev, Israel). Petrology of Siliceous Rocks in the..... 166
(Mississippian), Missouri. Dispersal Patterns and Diagenesis of Oolitic Calcarenites in the Ste. Genevieve Limestone..... 954
Missouri) as Revealed by Staining. Diagenesis and Dolomitization of a Limestone (Pennsylvanian of..... 1040
Missouri. Carbonate Facies and Paleography of the Blackjack Creek Formation (Pennsylvanian),..... 34
Missouri. Dispersal Patterns and Diagenesis of Oolitic Calcarenites in the Ste. Genevieve Limestone (Mississippian),..... 954
Mixing of Natural Waters. Diagenesis, Chemical Sediments, and the..... 1188
Modarresi, H. G., article by..... 793
Modern Evaporite Deposition and Geochemistry of Coexisting Brines, The Sabkha, Trucial Coast, Arabian Gulf..... 70
Modern Marine Carbonate Sediment, Alexander Archipelago, Alaska..... 581
Modern Sedimentary Environments of the Lower Georgia Coastal Plain. The Significance and Limitations of Statistical Parameters for Distinguishing Ancient and Modern..... 559
Mohawk Valley, New York. Carbonate Lithofacies and Environments of the Tribes Hill Formation (Lower Ordovician) of the..... 113
Molds in Argillites of the Carolina Slate Belt, North Carolina. Crystal..... 820
Monomers, Epoxide, and Unsaturated Polyester Resins. Rock Impregnation Trials Using.. 1251
Montana. The Isotopic Age of the Flathead Sandstone (Middle Cambrian),..... 364
Morphology, and Accretion Rate of Recent Subtidal Algal Stromatolites, Bermuda. Distribution,..... 49
Morrison Formation (Jurassic) of the Canon City, Colorado, Area. Stratigraphy and Petrology of the..... 632

Morrow, N. R., article by 312
Mosalamy, F. H., article by 1182
Mothersill, John S., article by 1317
Mount Carmel (Northern Israel). Diagenetic Dedolomitization in the Albian-Cenomanian Yagur Dolomite on 380
Mounts: Number Percentage vs. Number Frequency. Counting Grain 812
Mount Toby Conglomerate (Triassic, Massachusetts). Antidunes in the 1310
Mud Beds. Erosional Current Marks of Weakly Cohesive 607
Mud Pebbles in a Flash Floods Environment .. 333
Mukherji, Kalyan Kumar, article by 1530
Müller, German, article by 1604
Multipurpose Soft Sediment Sampler. A 327
Multivariate Classification of Typical Cincinnatian Calcarenites. The American Upper Ordovician Standard. XI 769
Murray, R. C., article by 1007
Mysore State. Authigenic Tourmalines from the Lower Kaladgi Sandstones, Jamkhandi, ... 391

NaCl in Salt Sediments of the Tuz Gölü ("Salt Lake"), Turkey. "Salt-Biscuits"—A Special Growth Structure of 1604
Nagaraja, H. R., article by 391
Namurian of Northern England. The Sedimentology of the Grandslow Shales and the Kinderscout Grit: A Deltaic Complex in the 194
Nature, Origin, and Significance of Cone-In-Cone Structures in the Kiowa Formation (Early Cretaceous), North-Central Kansas. 1438
Neal, W. J., article by 34
Neal, William J., article by 1040
Nearshore (Bar and Lagoon), and Offshore Sedimentary Environments in a Tectonic Delta Complex. The Tully Clastic Correlatives (Upper Devonian) of New York State: A Model for Recognition of Alluvial, Dune (?), Tidal, ... 451
(Negev, Israel). Petrology of Siliceous Rocks in the Mishash Formation 166
Nelson, C. Hans, article by 1269
Nelson, R. V., Jr., article by 581
New Hebrides. Ferroan and Non-Ferroan Calcite Cements in Pleistocene-Recent Carbonates from the 554
New York: A Case for Calcisiltite. Carbonate Petrology of the Onongada Limestone (Middle Devonian), ... 268
New York. Carbonate Lithofacies and Environments of the Tribes Hill Formation (Lower Ordovician) of the Mohawk Valley, ... 113
New York. Petrology of the Grimsby Sandstone (Lower Silurian) of Ontario and 521
New York State: A Model for Recognition of Alluvial, Dune (?), Tidal, Nearshore (Bar and Lagoon), and Offshore Sedimentary Environments in a Tectonic Delta Complex. The Tully Clastic Correlatives (Upper Devonian) of 451
Niino, Hiroshi, article by 1390
Nile Delta, U.A.R. Geological and Mineralogical Studies of Some Sand Deposits in the 1520
n in Weight Frequency Data. Determination of 1473
Nitrobenzene-Tetrabromoethane Solutions for the Gravity Separation of Minerals. 1610
Non-Destructive Core Analysis Technique Using X-Rays. A 1371
Non-Ferroan Calcite Cements in Pleistocene-Recent Carbonates from the New Hebrides. 554
Non-Laminated Joint-Free Sample Splitter. Note on a 373
Non-Opaque Heavy Minerals in Shales. Intrastratal Solution and 591
Normality in Observed Frequency Distributions Skewness and Kurtosis as Criteria of 1622
Norris, R. M., article by 7
North Carolina. Crystal Molds in Argillites of the Carolina Slate Belt, ... 820
Note on an Article by G. B. Asquith Entitled "Origin of Large Kaolinite Crystals in the Lower Almond Formation in South-West Wyoming." 1255
Note on a Non-Laminated Joint-Free Sample Splitter 373
Note on the Relationship of Grain Size, Clay Content, Quartz, and Organic Carbon in Some Lake Erie and Lake Ontario Sediments. A 803
Number Percentage vs. Number Frequency. Counting Grain Mounts: 812

Offshore Sedimentary Environments in a Tectonic Delta Complex. The Tully Clastic Correlatives (Upper Devonian) of New York State: A Model for Recognition of Alluvial, Dune (?), Tidal, Nearshore (Bar and Lagoon), and 451
Ohio. Grain Orientation in a Berea Sandstone Channel at South Amherst, ... 737
Oncolites in the Otavi Series, South West Africa. Stromatolites and ..... 104[illegible]
Ondrick, C. W., article by 176
Onondaga Limestone (Middle Devonian), New York: A Case for Calcisiltite. Carbonate Petrology of the 268
Ontario. A Grain Size Analysis of Longshore-Bars and Troughs, Lake Superior, ... 1317
Ontario and New York. Petrology of the Grimsby Sandstone (Lower Silurian) of 521
Ontario, Canada. Supratidal Carbonate Rocks in the Black River (Middle Ordovician) Group of Southwestern 1530
Ontario Sediments. A Note on the Relationship of Grain Size, Clay Content, Quartz, and Organic Carbon in Some Lake Erie and Lake 803
On the Term "Cryptalgalaminate" 396
Oolite and Pisolite Grains: An Energy Index. Genesis of 1399
Oolitic Calcarenites in the Ste. Genevieve Limestone (Mississippian), Missouri. Dispersal Patterns and Diagenesis of 954
Ordovician Greywackes, Berwyn Hills, North Wales. The Origin of Matrix in 1297
Ordovician) Group of Southwestern Ontario, Canada. Supratidal Carbonate Rocks in the Black River (Middle 1530
Ordovician) of the Mohawk Valley, New York. Carbonate Lithofacies and Environments of the Tribes Hill Formation (Lower 113
Ordovician Standard. XI. Multivariate Classification of Typical Cincinnatian Calcarenites. The American Upper 769
Organic Carbon in Sediments of Japan Sea 1390
Organic Carbon in Some Lake Erie and Lake Ontario Sediments. A Note on the Relationship of Grain Size, Clay Content, Quartz, and 803
Orientation in a Berea Sandstone Channel at South Amherst, Ohio. Grain 737
Orientation in Vicksburg Loess. Grain 969
"Origin of Large Kaolinite Crystals in the Lower

Almond Formation in Southwest Wyoming." Note on an Article by G. B. Asquith entitled ... 1255
Origin of Matrix in Ordovician Greywackes, Berwyn Hills, North Wales. The ... 1297
Origin of Penemosaic Texture in Evaporites of the Detroit River Formation (Middle Devonian) in Northern Indiana: Discussion of a Paper by L. F. Rooney and R. R. French. The ... 1256
Origin of Quartz Silt ... 1631
Osborne, Robert H., article by ... 769
Otavi Series, South West Africa. Stromatolites and Oncolites in the ... 1046
Owen, D. E., article by ... 737

Pacific. Glacial Marine Sediments from the Northeast ... 1142
Pacific. Sediments and Sedimentary Structures of the Astoria Submarine Canyon-Fan Systems, Northeast ... 1269
Paleoclimatic Significance of Some Red Regoliths and Associated Rocks in Western Colorado. Clay Mineralogy and ... 875
Paleography of the Blackjack Creek Formation (Pennsylvanian), Missouri. Carbonate Facies and ... 34
Paleosalinity in the Rheintalgraben (SW Germany). Relationships Between Initial Porosity of Tertiary Argillaceous Sediments and ... 246
Paleozoic Sandstones in the Pensacola Mountains, Antarctica. Petrology of the Upper Precambrian and ... 1455
Parameters for Distinguishing Ancient and Modern Sedimentary Environments of the Lower Georgia Coastal Plain. The Significance and Limitations of Statistical ... 559
Parameters in an Upper Carboniferous Fluvial Basin. The Environmental Significance of Cross Stratification ... 858
Particles. A Contact Gage for Rapid and Accurate Three-Dimensional Grain Size Measurement of Loose Sand ... 793
Particle Size Scale. The ... 809
Pebble Beach: Chesil Beach, England. Size Grading Along a ... 297
Pebble Counts. Relationship of Size and Composition in ... 1243
Pebbles in a Flash Floods Environment. Mud ... 333
Peels in Sandy Sediments Saturated with Saltwater. A Field Technique for Making Epoxy Relief ... 338
Pelecypod Valves in the Swash Zone. Differential Sorting of ... 159
Pelletier, B. R., article by ... 521
Penemosaic Texture in Evaporites of the Detroit River Formation (Middle Devonian) in Northern Indiana: Discussion of a Paper by L. F. Rooney and R. R. French. The Origin of ... 1256
Penemosaic Texture in Evaporites of the Detroit River Formation (Middle Devonian) in Northern Indiana: Reply to Discussion by D. A. Holliday. Allogenic Quartz and the Origin of ... 1258
(Pennsylvanian), Missouri. Carbonate Facies and Paleography of the Blackjack Creek Formation ... 34
(Pennsylvanian of Missouri) as Revealed by Staining. Diagenesis and Dolomitization of a Limestone ... 1040
Pennsylvanian Sandstones in the Michigan Basin. Dispersal Patterns of ... 1229
Pensacola Mountains, Antarctica. Petrology of the Upper Precambrian and Paleozoic Sandstones in the ... 1455
Percentage vs. Number Frequency. Counting Grain Mounts: Number ... 812
Permeability of Unconsolidated, Upper Miocene Sands from Grain-Size Analysis. Porosity and ... 312
Permeable Sandstone. Irmay's Saturation Factor as an Indication of an Immobile Fraction of Pore Water in Saturated ... 12
Pestrong, Raymond, article by ... 322
Pestrong, Raymond, article by ... 327
Petrographic Evaluation. Cyclic Geosynclinal Sedimentation: A ... 1325
Petrographic Reconnaissance of a Graded Shelf. The Carolina Cretaceous: ... 18
Petrology of a Glauconitic Sandy Chalk. The ... 1420
Petrology of Gartra Formation (Triassic), Unita Mountain Area, Utah and Colorado ... 1484
Petrology of Siliceous Rocks in the Mishash Formation (Negev, Israel) ... 166
Petrology of the Grimsby Sandstone (Lower Silurian) of Ontario and New York ... 521
Petrology of the Morrison Formation (Jurassic of the Canon City, Colorado, Area. Stratigraphy and ... 632
Petrology of the Onondaga Limestone (Middle Devonian), New York: A Case for Calcisiltite. Carbonate ... 268
Petrology of the Upper Precambrian and Paleozoic Sandstones in the Pensacola Mountains, Antarctica ... 1455
Petrography of the Sirban Limestone of Riasi, Jammu Province, Jammu and Kashmir State ... 1023
pH and Eh in Sediment Cores Within Plastic Liners. Procedure for Shipboard Measurement of ... 1247
Picard, M. Dane, article by ... 1484
Pierce, J. W., article by ... 187
Pierce, J. W., article by ... 385
Pilkey, O. H., article by ... 744
Piper, D. J. W., article by ... 601
Pisolite Grains: An Energy Index. Genesis of Oolite and ... 1399
Pittman, Edward D., article by ... 1432
Plagioclase Twins by Stream Transport. Destruction of ... 1432
Plain. The Significance and Limitations of Statistical Parameters for Distinguishing Ancient and Modern Sedimentary Environments of the Lower Georgie Coastal ... 559
Plain. Landward Transport of Bottom Sediments in Estauries of the Atlantic Coastal ... 222
Plastic Liners. Procedure for Shipboard Measurement of pH and Eh in Sediment Cores Within ... 1247
Platform for Shallow Estuarine Waters. An Inexpensive Coring ... 1238
Pleistocene-Recent Carbonates from the New Hebrides. Ferroan and Non-Ferroan Calcite Cements in ... 554
Polyester Resins. Rock Impregnation Trials Using Monomers, Epoxide, and Unsaturated ... 1251
Polymorphs in Warm, Shallow Seawater. Stability of Calcium Carbonate ... 1579
Pore Water in Saturated Permeable Sandstone. Irmay's Saturation Factor as an Indication of an Immobile Fraction of ... 12
Porosity and Permeability of Unconsolidated,

Upper Miocene Sands from Grain-Size Analysis ... 312
Porosity of Tertiary Argillaceous Sediments and Paleosalinity in the Rheintalgraben (SW Germany). Relationships Between Initial ... 246
Power, P. E., article by ... 875
Precambrian and Paleozoic Sandstones in the Pensacola Mountains, Antarctica. Petrology of the Upper ... 1455
Precambrian Shallow Epicontinental Basin. Tectonics and Sedimentation in a ... 1566
Precipitational Environment and Correlation of Some Calcite Cements Deduced from Artificial Staining. The ... 787
Precipitation and Lithification of Deep-Sea Carbonates in the Red Sea ... 724
Preliminary Evaluation of a Core Scintillation Counter for Bulk Density Measurement in Marine Sediment Cores ... 1509
Pressure Solution of Quartz. Experimental Investigation of ... 1107
Price, N. B., article by ... 624
Procedure for Shipboard Measurement of pH and Eh in Sediment Cores within Plastic Liners ... 1247
Processes Along the Northern British Honduras Coast. Storms and Sedimentary ... 235
Processes. Grain Size Distributions and Depositional ... 1074
Profile. External and Internal Undersurface Features Produced by Subaerial Deposition of Pyroclastic Material on a Soil ... 360
Progressive Diagenesis in Quaternary to Late Tertiary Carbonate Sediments: Sequence and Time Scale ... 980
Prokopovich, Nikola P., article by ... 891
Provenance of Minerals from Continental Shelf Sediments off the South Carolina Coast. Distribution and ... 276
Proximality in Turbidites. Tyee Formation: A Study of ... 935
Pyroclastic Material on a Soil Profile. External and Internal Undersurface Features Produced by Subaerial Deposition of ... 360
Pryor, W. A., article by ... 1384

Quantification in Clay Mineral Studies of Sediments and Sedimentary Rocks ... 187
Quantitative Statistical Analyses of Columbia River Sediment Samples ... 1167
Quartz, and Organic Carbon in Some Lake Erie and Lake Ontario Sediments. A Note on the Relationship of Grain Size, Clay Content ... 803
Quartz and the Origin of Penemosaic Texture in Evaporites of the Detroit River Formation (Middle Devonian) in Northern Indiana: Reply to Discussion by D. A. Holliday. Allogenic ... 1258
Quartz. Experimental Investigation of Pressure Solution of ... 1107
Quartz Sand Grains in the Electron Microscope. A Surface Replica Technique for Examination of ... 1608
Quartz Silt. Origin of ... 1631
Quaternary Climatic Changes. Amino Acid Levels in the Argentine Basin Sediments: Correlation with ... 345
Quaternary to Late Tertiary Carbonate Sediments: Sequence and Time Scale. Progressive Diagenesis in ... 980

Ramez, M. R. H., article by ... 1182
Randazzo, Anthony F., article by ... 820
Rapid Method for the Determination of Shape, Sphericity, and Size of Gravel Fragments. A ... 797
Recent Biogenic Carbonates: A Model of Diagenesis. Experimental Dissolution of Calcium, Magnesium, and Strontium from ... 1057
Recent Carbonate Sedimentation by Tidal Channels in the Lower Florida Keys ... 531
Recent Carbonates from the New Hebrides. Ferroan and Non-Ferroan Calcite Cements in Pleistocene ... 554
Recent Sediments of Loch Etive, Scotland. Chamosite in the ... 624
Recent Subtidal Algal Stromatolites, Bermuda. Distribution, Morphology, and Accretion Rate of ... 49
Recognizing Fossil Strand Lines from Grain-Size Analysis: Comment on a Paper by John Chappell ... 1254
Recording Settling Tube. Calibration of the University of Southern California Automatically ... 781
Recording Settling Tube for Analysis of Sands. An Inexpensive ... 777
Reddening and Time. Dune ... 7
Red Regoliths and Associated Rocks in Western Colorado. Clay Mineraolgy and Paleoclimatic Significance of Some ... 875
Red Sea. Precipitation and Lithification of Deep-Sea Carbonates in the ... 724
Regoliths and Associated Rocks in Western Colorado. Clay Mineralogy and Paleoclimatic Significance of Some Red ... 875
Relationship of Size and Composition in Pebble Counts ... 1243
Relationships Between Initial Porosity of Tertiary Argillaceous Sediments and Paleosalinity in the Rheintalgraben (SW Germany) ... 246
Relief-Peels in Sandy Sediments Saturated with Saltwater. A Field Technique for Making Epoxy ... 338
Rensselaer Greywacke and its Implication to the Taconics. Trend Surface Analysis Applied to the ... 176
Renton, J. J., article by ... 1107
Replica Technique for the Examination of Quartz Sand Grains in the Electron Microscope. A Surface ... 1608
Reply to Discussion by D. A. Holliday. Allogenic Quartz and the Origin of Penemosaic Texture in Evaporites of the Detroit River Formation (Middle Devonian) in Northern Indiana: ... 1258
Resins. Rock Impregnation Trials Using Monomers, Epoxide, and Unsaturated Polyester ... 1251
Riasi, Jammu Province, Jammu and Kashmir State. Petrography of the Sirban Limestone of ... 1023
Riezebos, P. A., article by ... 360
River Formation (Eocene) of Wyoming. Clay Mineral Composition of the Tipton Shale Member of the Green ... 1593
River Formation (Middle Devonian) in Northern Indiana: Discussion of a Paper by L. F. Rooney and R. R. French. The Origin of Penemosaic Texture in Evaporites of the Detroit ... 1256
River Formation (Middle Devonian) in Northern Indiana: Reply to Discussion by D. A. Holliday. Allogenic Quartz and the Origin of Penemosaic Texture in Evaporites of the

Detroit 1258
River Sediment and Sediment Transport. Characteristics of Columbia 1149
River Sediment Samples. Quantitative Statistical Analyses of Columbia 1167
River. The Sedimentology of a Braided 649
Rock Impregnation Trials Using Monomers, Epoxide, and Unsaturated Polyester Resins 1251
Rock Selective Dolomitization Model. Hydrology of South Bonaire, N. A.—A 1007
Rocks. Interpretation of Sr^{+2} Concentrations in Carbonate Minerals and 486
Rocks in the Black River (Middle Ordovician) Group of Southwestern Ontario, Canada. Supratidal Carbonate 1530
Rocks in the Mishash Formation (Negev, Israel). Petrology of Siliceous 166
Rocks in Western Colorado. Clay Mineralogy and Paleoclimatic Significance of Some Red Regoliths and Associated 875
Rocks in Utah. Large Non-Tectonic Deformational Structures from Upper Cretaceous .. 1032
Rocks. Quantification in Clay Mineral Studies of Sediments and Sedimentary 187
Rohrlich, Vera, article by 624
Rona, P. A., article by 1509
Rona, Peter A., article by 1132
Rooney and R. R. French. The Origin of Penemosaic Texture in Evaporites of the Detroit River Formation (Middle Devonian) in Northern Indiana: Discussion of a Paper by L. F. 1256
Rooney, Lawrence F., article by 1258
Rosen, Norman C., article by 1552
Ross, D. A., article by 724
Runnells, Donald D., article by 1188
Rust, B. R., article by 649

Sabkha, Trucial Coast, Arabian Gulf. Modern Evaporite Deposition and Geochemistry of Coexisting Brines, The 70
Salinites of Interstitial Waters from Selected Sediments in the Gulf of Mexico 1633
"Salt-Biscuits"—A Special Growth Structure of NaCl in Salt Sediments of the Tuz Gölü ("Salt Lake"), Turkey 1604
Salt Sediments of the Tuz Gölü ("Salt Lake"), Turkey. "Salt-Biscuits"—A Special Growth Structure in NaCl in 1604
Saltwater. A Field Technique for Making Epoxy Relief-Peels in Sand Sediments Saturated with 338
Sampler. A Multipurpose Soft Sediment 327
Sample Splitter. Note on a Non-Laminated Joint-Free 373
Sampling Unconsolidated Sands. An Inexpensive Portable Vibrocorer for 385
Sanders, J. E., article by 136
Sanders, J. E., article by 338
Sands Deposits in the Nile Delta, U.A.R. Geological and Mineralogical Studies of Some .. 1520
Sand Grains in the Electron Microscope. A Surface Replica Technique for the Examination of Quartz 1608
Sand. Hoof-Print Structures in Beach 350
Sand Particles. A Contact Gage for Rapid and Accurate Three-Dimensional Grain Size Measurement of Loose 793
Sands. An Inexpensive Portable Vibrocorer for Sampling Unconsolidated 385
Sands. An Inexpensive Recording Settling Tube for the Analysis of 781
Sands from Grain-Size Analysis. Porosity and Permeability of Unconsolidated, Upper Miocene 312
Sands. The Deformed Nature of Various Size Fractions in Some Clastic 1182
Sandstone Channel at South Amherst, Ohio. Grain Orientation in a Berea 737
Sandstone from Outer Continental Shelf off Delaware Bay: Submarine Lithification Mechanism Yields Product Resembling Beachrock. Aragonite-Cemented 136
Sandstone. Irmay's Saturation Factor as an Indication of an Immobile Fraction of Pore Water in Saturated Permeable 12
Sandstone (Lower Silurian) of Ontario and New York. Petrology of the Grimsby 521
Sandstone (Middle Cambrian), Montana. The Isotopic Age of the Flathead 364
Sandstones and Siltstones. Ultrasonic Disaggregation of 375
Sandstones in the Pensacola Mountains, Antarctica. Petrology of the Upper Precambrian and Paleozoic 1455
Sandstones, Jamkhandi, Mysore State. Authigenic Tourmalines from the Lower Kaladgi 391
Sandstones in the Michigan Basin. Dispersal Patterns of Pennsylvanian 1229
Sand Transport by Tidal Currents. Direct Illustration of One Way 1249
Sandy Chalk. The Petrology of a Glauconitic .. 1420
Sandy Sediments Saturated with Saltwater. A Field Technique for Making Epoxy Relief-Peels in 338
Saturated Sediments. A Hydraulic Corer for Use in Water 1619
Saturation Factor as an Indication of an Immobile Fraction of Pore Water in Saturated Permeable Sandstone. Irmay's 12
Saturation of Seawater. Diurnal Variations in the Carbonate Saturation of 255
Savage, E. L., article by 375
Scale. The Particle Size 809
Scanning Electron Microscope. Authigenic Mineral Growths as Revealed by the 1596
Scanning Electron Microscope. Study of the Fabric of Fine-Grained Sediments with the . 90
Schmalz, R. F., article by 255
Schroeder, Johannes, article by 1057
Schwab, F. L., article by 150
Schwab, Frederic L., article by 1325
Scintillation Counter for Bulk Density Measurement in Marine Sediment Cores. Preliminary Evaluation of a Core 1509
Scotland. Chamosite in the Recent Sediments of Loch Etive 624
Scott, W. B., article by 1608
Sea Water Solids. Surinam and the African Continent: A Clay-Mineralogical Study of 1588
Seawater. Stability of Calcium Carbonate Polymorphs in Warm, Shallow 1579
Sediment, Alexander Archipelago, Alaska. Modern Marine Carbonate 581
Sediment Analyzer Directly Writing Grain Size Distribution Curves. Granulometer—A 1627
Sediment and Sediment Transport. Characteristics of Columbia River 1149
Sedimentary Environments in a Tectonic Delta Complex. The Tully Clastic Correlatives (Upper Devonian) of New York State: A Model for Recognition of Alluvial, Dune (?), Tidal, Nearshore (Bar and Lagoon), and Offshore 451
Sedimentary Environments of the Lower Georgia Coastal Plain. The Significance

and Limitations of Statistical Parameters for Distinguishing Ancient and Modern.... 559
Sedimentary Processes Along the Northern British Honduras Coast. Storms and..... 235
Sedimentary Rocks. Quantifications in Clay Mineral Studies of Sediments and..... 187
Sedimentary Structures of the Astoria Submarine Canyon-Fan Systems, Northeast Pacific. Sediments and..... 1269
Sedimentary Structure. Tadpole Holes: A True Biogenic..... 358
Sedimentation: An Example from the Jurassic of Britain. Shelf..... 1344
Sedimentation: A Petrographic Evaluation. Cyclic Geosynclinal..... 1325
Sedimentation by Tidal Channels in the Lower Florida Keys. Recent Carbonate..... 531
Sedimentation in a Precambrian Shallow Epicontinental Basin. Tectonics and..... 1566
Sedimentation on the Atlantic Continental Shelf off the Southern United States. Aspects of Carbonate..... 744
Sediment Cores. Preliminary Evaluation of a Core Scintillation Counter for Bulk Density Measurement in Marine..... 1509
Sediment Cores Within Plastic Liners. Procedure for Shipboard Measurement of pH and Eh in..... 1247
Sediment in a Non-Beach Environment. Development of Cavernous..... 342
Sedimentology of a Braided River. The..... 649
Sedimentology of the Grindslow Shales and the Kinderscout Grit: A Deltaic Complex in the Namurian of Northern England. The... 194
Sediments. A Hydraulic Corer for Use in Water Saturated..... 1619
Sediment Sampler. A Multipurpose Soft..... 327
Sediment Samples. Quantitative Statistical Analyses of Columbia River..... 1167
Sediments and Paleosalinity in the Rheintalgraben (SW Germany). Relationships Between Initial Porosity of Tertiary Argillaceous..... 246
Sediments and Sedimentary Rocks. Quantification in Clay Mineral Studies of..... 187
Sediments and Sedimentary Structures of the Astoria Submarine Canyon-Fan Systems, Northeast Pacific..... 1269
Sediments, and the Mixing of Natural Waters, Diagenesis, Chemical..... 1188
Sediments. A Note on the Relationship of Grain Size, Clay Content, Quartz, and Organic Carbon in Some Lake Erie and Lake Ontario..... 803
Sediments by Clams. Deposition of Clastic.... 891
Sediments: Correlation with Quaternary Climatic Changes. Amino Acid Levels in the Argentine Basin..... 345
Sediments from the Gulf of Mexico. Iron Rich Layers in..... 1412
Sediments from the Northeast Pacific. Glacial Marine..... 1142
Sediments in Estuaries of the Atlantic Coastal Plain. Landward Transport of Bottom.... 222
Sediments in the Gulf of Mexico. Salinities of Interstitial Waters from Selected..... 1633
Sediments. Microstructure of Unconsolidated and Consolidated Marine..... 1546
Sediments off the South Carolina Coast. Distribution and Provenance of Minerals from Continental Shelf..... 276
Sediments of Japan Sea. Organic Carbon in.... 1390
Sediments of Loch Etive, Scotland. Chamosite in the Recent..... 624
Sediments of the Tuz Gölü ("Salt Lake"), Turkey. "Salt-Biscuits"—A Special Growth Structure of NaCl in Salt..... 1604
Sediments on LaJolla Deep Sea Fan, California. Bioturbation of Holocene..... 601
Sediments Saturated with Saltwater. A Field Technique for Making Epoxy Relief-Peels in Sandy..... 338
Sediments: Sequence and Time Scale. Progressive Diagenesis in Quaternary to Late Tertiary Carbonate..... 980
Sediments. The effect of Fresh Water on the Redistribution of Uranium in Carbonate..... 1283
Sediments. The Shear Strength of Tidal Marsh 322
Sediments with the Scanning Electron Microscope. Study of the Fabric of Fine-Grained. 90
Separation of Heavy Minerals: A New Apparatus. Centrifuge..... 815
Separation of Minerals. Nitrobenzene-Tetrabromoethane Solutions for the Gravity.... 1610
Sequence and Time Scale. Progressive Diagenesis in Quaternary to Late Tertiary Carbonate Sediments..... 980
Sespe Formation (California). Iron-Bearing Heavy Minerals in the..... 1616
"Settling Convection and Grain Size Analysis." Discussion of the Paper..... 1641
Settling Tube. Calibration of the University of Southern California Automatically Recording..... 781
Settling Tube for Analysis of Sands. An Inexpensive Recording..... 777
Shahat, A., article by..... 1520
Shale Member of the Green River Formation (Eocene) of Wyoming. Clay Mineral Composition of the Tipton..... 1593
Shale Carboniferous Age from Yorkshire, England. A Laminated Marine..... 106
Shales and the Kinderscout Grit: A Deltaic Complex in the Namurian of Northern England. The Sedimentology of the Grindslow..... 194
Shales. Intrastratal Solution and Non-Opaque Heavy Minerals in..... 591
Shallow Epicontinental Basin. Tectonics and Sedimentation in a Precambrian..... 1566
Shape, Sphericity, and Size of Gravel Fragments. A Rapid Method for the Determination of..... 797
Sharma, M. R., article by..... 1023
Shearer, James, article by..... 1254
Shear Strength of Tidal Marsh Sediments. The.. 322
Shelf off Delaware Bay: Submarine Lithification Mechanism Yields Product Resembling Beachrock. Aragonite-Cemented Sandstone from Outer Continental..... 136
Shelf Sedimentation: An Example from the Jurassic of Britain..... 1344
Shelf Sediments off the South Carolina Coast. Distribution and Provenance of Minerals from Continental..... 276
Shelf. The Carolina Cretaceous: Petrographic Reconnaissance of a Graded..... 18
Shelton, John W., article by..... 969
Shideler, Gerald L., article by..... 1229
Shipboard Measurement of pH and Eh in Sediment Cores Within Plastic Liners. Procedure for..... 1247
Shinn, E. A., article by..... 1201
Siderite Concretions, Kiowa Formation (Early Cretaceous), North-Central Kansas. Synaeresis Features and Genesis of..... 799

Siegel, F. R., article by 187
Siegel, F. R., article by 276
Significance and Limitations of Statistical Parameters for Distinguishing Ancient and Modern Sedimentary Environments of the Lower Georgia Coastal Plain. The 559
Siliceous Rocks in the Mishash Formation (Negev, Israel). Petrology of 166
Silt. Origin of Quartz 1631
Siltstones. Ultrasonic Disaggretaion of Sandstones and 375
Silurian) of Ontario and New York. Petrology of the Grimsby Sandstone (Lower 521
Simmons, A. B., III, article by 312
Sirban Limestone of Riasi, Jammu Province, Jammu and Kashmir State. Petrography of the 1023
Size Analysis: Comment on a Paper by John Chappell Recognizing Fossil Strand Lines from Grain- 1254
Size Analysis of Longshore-Bars and Troughs, Lake Superior, Ontario. A Grain 1317
Size Analysis of the Citronelle Formation of the Gulf Coastal Plain. Heavy Minerals and ... 1552
Size and Composition in Pebble Counts. Relationship of 1243
Size Distribution Curves. Granulometer—A Sediment Analyzer Directly Writing Grain. 1627
Size Distribution on the West Florida Shelf and Experimental Studies on the Microarchitectural Control of Skeletal Breakdown. Calcium Carbonate 902
Size Distributions and Depositional Processes. Grain 1074
Size Fractions in Some Clastic Sands. The Deformed Nature of Various 1182
Size-Frequency Distirbutions from Thin-Section Data. Grain 1598
Size Grading Along a Pebble Beach: Chesil Beach, England 297
Size Measurement of Loose Sand Particles. A Contact Gage for Rapid and Accurate Three-Dimensional Grain 793
Size of Gravel Fragments. A Rapid Method for the Determination of Shape, Sphericity, and 797
Size Scale. The Particle 809
Skeletal Breakdown. Calcium Carbonate Size Distribution on the West Florida Shelf and Experimental Studies on the Microarchitectural Control of 902
Skewness and Kurtosis as Criteria of Normality in Observed Frequency Distributions 1622
Slate Belt, North Carolina. Crystal Molds in Argillites of the Carolina 820
Smit, D. E., article by 379
Soil Profile. External and Internal Undersurface Features Produced by Subaerial Deposition of Pyroclastic Material on a, ... 360
Solution and Non-Opaque Heavy Minerals in Shales. Intrastratal 591
Solution of Quartz. Experimental Investigation of Pressure 1107
Sorting of Pelecypod Valves in the Swash Zone. Differential 159
South Amherst, Ohio. Grain Orientation in a Berea Sandstone Channel at 737
South Bonaire, N. A.—A Rock Selective Dolomitization Model. Hydrology of 1007
South Carolina Coast. Distribution and Provenance of Minerals from Continental Shelf Sediments off the 276
Spears, D. A., article by 106
Spectrometry as a Tool for a Rapid Investigation of Detritic Cores. Gamma Ray 1477
Sphericity, and Size of Gravel Fragments. A Rapid Method for the Determination of Shape, ... 797
Splitter. Note on a Non-Laminated Joint-Free Sample 373
Sr^{+2} Concentrations in Carbonate Minerals and Rocks. Interpretation of 486
Stability of Calcium Carbonate Polymorphs in Warm, Shallow Seawater 1579
Staining. Diagenesis and Dolomitization of a Limestone (Pennsylvanian of Missouri) as Revealed by 1040
Staining. The Precipitational Environment and Correlation of Some Calcite Cements Deduced from Artificial 787
Standard. XI. Multivariate Classification of Typical Cincinnatian Calcarenites. The American Upper Ordovician 769
Statistical Analyses of Columbia River Sediment Samples. Quantitative 1167
Statistical Parameters for Distinguishing Ancient and Modern Sedimentary Environments of the Lower Georgia Coastal Plain. The Significance and Limitations of 559
Ste. Genevieve Limestone (Mississippian), Missouri. Dispersal Patterns and Diagenesis of Oolitic Calcarenites in the 954
Stevenson, F. J., article by 345
Stieglitz, R. D., article by 342
St. Lawrence Estuary. Tidal Flat Erosion by Ice at La Pocatiere, ... 1174
Stone, I. C., Jr., article by 276
Storms and Sedimentary Processes Along the Northern British Honduras Coast 235
Strand Lines from Grain-Size Analysis: Comment on a Paper by John Chappell. Recognizing Fossil 1254
Stratification Parameters in an Upper Carboniferous Fluvial Basin. The Environmental Significance of Cross 858
Stratigraphy and Petrology of the Morrison Formation (Jurassic) of the Canon City, Colorado, Area 632
Stream Transport. Destruction of Plagioclase Twins by 1432
Strength of Tidal Marsh Sediments. The Shear 322
Stromatolites and Oncolites in the Otavi Series, South West Africa 1046
Stromatolites, Bermuda. Distribution, Morphology, and Accretion Rate of Recent Subtidal Algal 49
Stromatolites in the James Reef Complex (Lower Cretaceous), Fairway Field, Texas. Algal 1466
Strontium from Recent Biogenic Carbonates: A Model of Diagenesis. Experimental Dissolution of Calcium, Magnesium, and 1057
(Strontium) Sr^{+2} Concentrations in Carbonate Minerals and Rocks. Interpretation of 486
Structure of NaCl in Salt Sediments of the Tuz Gölü ("Salt Lake"), Turkey. "Salt-Biscuits"—A Special Growth 1604
Structures from Upper Cretaceous Rocks of Utah. Large Non-Tectonic Deformational 1032
Structures in Beach Sand. Hoof-Print 350
Structures in the Kiowa Formation (Early Cretaceous), North-Central Kansas. Nature, Origin, and Significance of Cone-In-Cone 1438
Structure. Tadpole Holes: A True Biogenic Sedimentary 358
Study of Mineral-Grain Surfaces by Interference

Microscopy. The 1599
Study of the Fabric of Fine-Grained Sediments with the Scanning Electron Microscope ... 90
Subaerial Deposition of Pyroclastic Material on a Soil Profile. External and Internal Undersurface Features Produced by 360
Submarine Canyon-Fan Systems, Northeast Pacific. Sediments and Sedimentary Structures of the Astoria 1269
Submarine Lithification Mechanism Yields Product Resembling Beachrock. Aragonite-Cemented Sandstone from Outer Continental Shelf off Delaware Bay: 136
Subtidal Algal Stromatolites, Bermuda. Distribution, Morphology, and Accretion Rate of Recent 49
Supratidal Carbonate Rocks in the Black River (Middle Ordovician) Group of Southwestern Ontario, Canada 1530
Surface Replica Technique for the Examination of Quartz Sand Grains in the Electron Microscope. A 1608
Surinam and the African Continent: A Clay-Mineralogical Study of Sea Water Solids ... 1588
Sutherland, Berry, article by 591
Swanson, F. J., article by 255
Swash Zone. Differential Sorting of Pelecypod Valves in the 159
Swett, Keene, article by 379
Swift, D. J. P., article by 18
Synaeresis Features and Genesis of Siderite Concretions, Kiowa Formation (Early Cretaceous), North-Central Kansas 799

Taconics. Trend Surface Analysis Applied to the Rensselaer Greywacke and its Implications to the 176
Tadpole Holes: A True Biogenic Sedimentary Structure 358
Tank, Ronald, article by 1593
Tanner, William F., article by 809
Tasch, Paul, article by 369
Tectonic Delta Complex. The Tully Clastic Correlatives (Upper Devonian) of New York State: A Model for Recognition of Alluvial, Dune (?), Tidal, Nearshore (Bar and Lagoon), and Offshore Sedimentary Environments in a 451
Tectonics and Sedimentation in a Precambrian Shallow Epicontinental Basin 1566
Terlecky, P. M., article by 744
Tertiary Argillaceous Sediments and Paleosalinity in the Rheintalgraben (SW Germany). Relationships Between Initial Porosity of 246
Tertiary Carbonate Sediments: Sequence and Time Scale. Progressive Diagenesis in Quaternary to Late 980
Texas. Algal Stromatolites in the James Reef Complex (Lower Cretaceous), Fairway Field, ... 1466
Texas." Discussion of a Note by J. M. Waite Entitled "Anamalies in the Thermoluminescence of the Austin Chalk of 395
Texas" Reply to Comment by McDougall. "Anomalies in the Thermoluminescence of the Austin Chalk of 395
Texture in Evaporites of the Detroit River Formation (Middle Devonian) in Northern Indiana: Discussion of a Paper by L. F. Rooney and R. R. French. The Origin of Penemosaic 1256
Texture in Evaporites of the Detroit River Formation (Middle Devonian) In Northern Indiana: Reply to Discussion by D. A. Holliday. Allogenic Quartz and the Origin of Penemosaic 1258
Thermoluminescence of the Austin Chalk of Texas." Discussion of a Note by J. M. Waite Entitled "Anomalies in the 395
Thermoluminescence of the Austin Chalk of Texas" Reply to Comment by McDougall. "Anomalies in the 395
Theron, J. C., article by 815
Thin-Section Data. Grain Size-Frequency Distributions from 1598
Thin-Sections. A Method for the Preparation of Halite 799
Thomas, R. L., article by 803
Three Dimensional Grain Size Measurement of Loose Sand Particles. A Contact Gage for Rapid and Accurate 793
Tidal Channels in the Lower Florida Keys. Recent Carbonate Sedimentation by 531
Tidal Currents. Direct Illustration of One Way Sand Transport by 1249
Tidal-Flat, Andros Island, Bahamas. Anatomy of a Modern Carbonate 1201
Tidal Flat Erosion by Ice at La Pocatiere, St. Lawrence Estuary 1174
Tidal Marsh Sediments. The Shear Strength of .. 322
Tidal, Nearshore (Bar and Lagoon), and Offshore Sedimentary Environments in a Tectonic Delta Complex. The Tully Clastic Correlatives (Upper Devonian) of New York State: A Model for Recognition of Alluvial, Dune (?) 451
Time. Dune Reddening and 7
Time Scale. Progressive Diagenesis in Quaternary to Late Tertiary Carbonate Sediments: Sequence and 980
Tipton Shale Member of the Green River Formation (Eocene) of Wyoming. Clay Mineral Composition of the 1593
Tourmalines from the Lower Kaladgi Sandstones, Jamkhandi, Mysore State. Authigenic 391
Transport by Tidal Currents. Direct Illustration of One Way Sand 1249
Transport. Characteristics of Columbia River Sediment and Sediment 1149
Transport. Destruction of Plagioclase Twins by Stream 1432
Transport of Bottom Sediments in Estuaries of the Atlantic Coastal Plain. Landward 222
Trend Surface Analysis Applied to the Rensselaer Greywacke and its Implication to the Taconics 176
(Triassic, Massachusetts). Antidunes in the Mount Toby Conglomerate 1310
(Trisassic), Uinta Mountain Area, Utah and Colorado. Petrology of Gartra Formation .. 1484
Tribes Hill Formation (Lower Ordovician) of the Mohawk Valley, New York. Carbonate Lithofacies and Environments of the 113
Trochoidal Waves. Antidunes as 1302
Troughs, Lake Superior, Ontario. A Grain Size Analysis of Longshore-Bars and 1317
Trucial Coast, Arabian Gulf. Modern Evaporite Deposition and Geo-chemistry of Coexisting Brines, The Sabkha, ... 70
Tube. Calibration of the University of Southern California Automatically Recording Settling 781
Tube for Analysis of Sands. An Inexpensive Recording Settling 777

Tully Clastic Correlatives (Upper Devonian) of New York State: A Model for Recognition of Alluvial, Dune (?), Tidal, Nearshore (Bar and Lagoon), and Offshore Sedimentary Environments in a Tectonic Delta Complex. The ... 451
Turbidites. Tyee Formation: A Study of Proximality in ... 935
Turkey. "Salt-Biscuits"—A Special Growth Structure of NaCl in Salt Sediments of the Tux Gölü ("Salt Lake") ... 1604
Tyee Formation: A Study of Proximality in Turbidites ... 935
Tyler, John H., article by ... 509

U.A.R. Geological and Mineralogical Studies of Some Sand Deposits in the Nile Delta, ... 1520
Uinta Mountain Area, Utah and Colorado. Petrology of Gartra Formation (Triassic), ... 1484
Ultrasonic Disaggregation of Sandstones and Siltstones ... 375
Unconsolidated and Consolidated Marine Sediments. Microstructure of ... 1546
Unconsolidated Sands. An Inexpensive Portable Vibrocorer for Sampling ... 385
Undersurface Features Produced by Subaerial Deposition of Pyroclastic Material on a Soil Profile. External and Internal ... 360
United States. Aspects of Carbonate Sedimentation on the Atlantic Continental Shelf off the Southern ... 744
University of Southern California Automatically Recording Settling Tube. Calibration of the ... 781
Upper Carboniferous Fluvial Basin. The Environmental Significance of Cross Stratification Parameters in an ... 858
Upper Cretaceous Rocks of Utah. Large Non-Tectonic Deformational Structures from ... 1032
(Upper Devonian) of New York State: A Model for Recognition of Alluvial, Dune (?), Tidal Nearshore (Bar and Lagoon), and Offshore Sedimentary Environments in a Tectonic Delta Complex. The Tully Clastic Correlatives ... 451
Upper Miocene Sands from Grain-Size Analysis. Porosity and Permeability of Unconsolidated, ... 312
Upper Ordovician Standard. XI. Multivariate Classification of Typical Cincinnatian Calcarenites. The American ... 769
Uranium in Carbonate Sediments. The Effect of Fresh Water on the Redistribution of ... 1283
Utah and Colorado. Petrology of Gartra Formation (Triassic), Uinta Mountain Area, ... 1484
Utah. Large Non-Tectonic Deformational Structures from Upper Cretaceous Rocks of ... 1032

Valves in the Swash Zone. Differential Sorting of Pelecypod ... 159
van Baren, F. A., article by ... 1588
van der Lingen, G. J., article by ... 350
Variations in the Carbonate Saturation of Seawater. Diurnal ... 255
Veevers, J. J., article by ... 1118
Vibrocorer for Sampling Unconsolidated Sands. An Inexpensive Portable ... 385
Vicksburg Loess. Grain Orientation in ... 969
Visher, Glenn S., article by ... 1074
Von M. Harmse, H. J., article by ... 1588

Waite Entitled "Anomalies in the Thermoluminescence of the Austin Chalk of Texas." Discussion of a Note by J. M. ... 395
Waite, J. M., article by ... 395
Wales. The Origin of Matrix in Ordovician Greywackes, Berwyn Hills, North ... 1297
Walker, Charles W., article by ... 799
Wallin, Charles, article by ... 1546
Warnke, Detlef A., article by ... 1599
Water in Saturated Permeable Sandstone. Irmay's Saturation Factor as an Indication of an Immobile Fraction of Pore ... 12
Water on the Redistribution of Uranium in Carbonate Sediments. The Effect of Fresh ... 1283
Waters. An Inexpensive Coring Platform for Shallow Estuarine ... 1238
Water Saturated Sediments. A Hydraulic Corer for Use in ... 1619
Waters. Diagenesis, Chemical Sediments, and the Mixing of Natural ... 1188
Waters from Selected Sediments in the Gulf of Mexico. Salinities of Interstitial ... 1633
Water Solids. Surinam and the African Continent: A Clay Mineralogical Study of Sea ... 1588
Watson, Jerry A., article by ... 1412
Watson, R. L., article by ... 159
Waves. Antidunes as Trochoidal ... 1302
Weathering of an Antarctic Argillite: Field, Geochemical, and Mineralogical Observations ... 369
Weight Frequency Data. Determination of n in ... 1473
Wessel, James M., article by ... 1310
Whetten, John T., article by ... 1149
Whetten, John T., article by ... 1167
Williams, D. J. A., article by ... 1641
Williams, Paul L., article by ... 1455
Williams, P. F., article by ... 649
Williamson, Iain A., article by ... 1255
Winland, H. Dale, article by ... 1579
Wyoming. Clay Mineral Composition of the Tipton Shale Member of the Green River Formation (Eocene) of ... 1593
Discussion of an Article by G. B. Asquith Entitled "Origin of Large Kaolinite Crystals in the Lower Almond Formation in South-West Wyoming" ... 1255

X-Ray Diffraction Analysis of Heavy Minerals ... 1384
X-Rays. A Non-Destructive Core Analysis Technique Using ... 1371

Yagur Dolomite on Mount Carmel (Northern Israel). Diagenetic Dedolomitization in the Albian-Cenomanian ... 380
Yorkshire, England. A Laminated Marine Shale of Carboniferous Age from ... 106